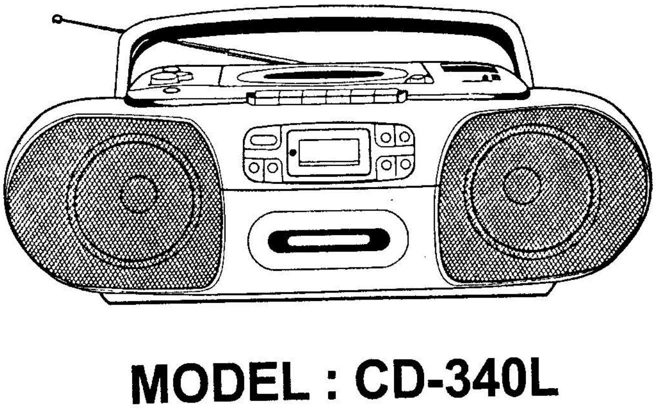
GoldStar

SERVICE MANUAL

COMPACT DISC PLAYER
STEREO RADIO
CASSETTE RECORDER



MODEL : CD-340L

GoldStar

CONTENTS

- Specification 2
- Adjustments 3
- Description of Circuit 9
- Major Waveform 13
- Pin Function of IC503(KS5990) 14
- Troubleshooting Guide 17
- Block Diagram
  - Audio Section 24
  - CDP Section 25
- Schematic Diagram
  - RF Section 26
  - Audio Section 27
  - CDP Section 28
- Wiring Diagram 29
- PCB Layout
  - RF P.C Board 30
  - Power P.C. Board 30
  - Battery P.C. Board 30
  - Main P.C. Board 30
  - Volume P.C. Board 30
  - Deck P.C. Board 30
  - CDP P.C. Board 31
- Exploded View & Parts List
  - Cabinet Section 32
  - Deck Mechanism Section 34
  - CDP Mechanism Section 35
- Replacement Parts List 36

SPECIFICATIONS

• GENERAL

Speaker Woofer	3.2Ω × 2EA
Output power	2.3W/CH
Power supplies Mains operation	Refer to the back label of the rear case
Battery operation	DC 12V, Six "D" cell (IEC R20) batteries (not included)

• RADIO SECTION

Frequency range	
MW	525~1,630kHz
FM	87.35~108.25MHz
LW	140~290kHz
Intermediate frequencies	
MW/LW	455kHz
FM	10.7MHz
Antenna	
FM	Rod Antenna
MW/LW	Ferrite bar antenna

• CASSETTE SECTION

Track system	Compact cassette stereo
Recording system	AC bias
Erase system	Magnetic erase
Tape speed	4.75cm/sec
Frequency response	125Hz~8kHz

• CD PLAYER SECTION

Sampling Frequency	44.1kHz
Frequency response	40Hz~20kHz
Signal to noise ratio	95dB
Dynamic range	90dB
T.H.D(Distortion)	0.04%

* NOTE : Design and Specifications subject to change without notice for improvement.

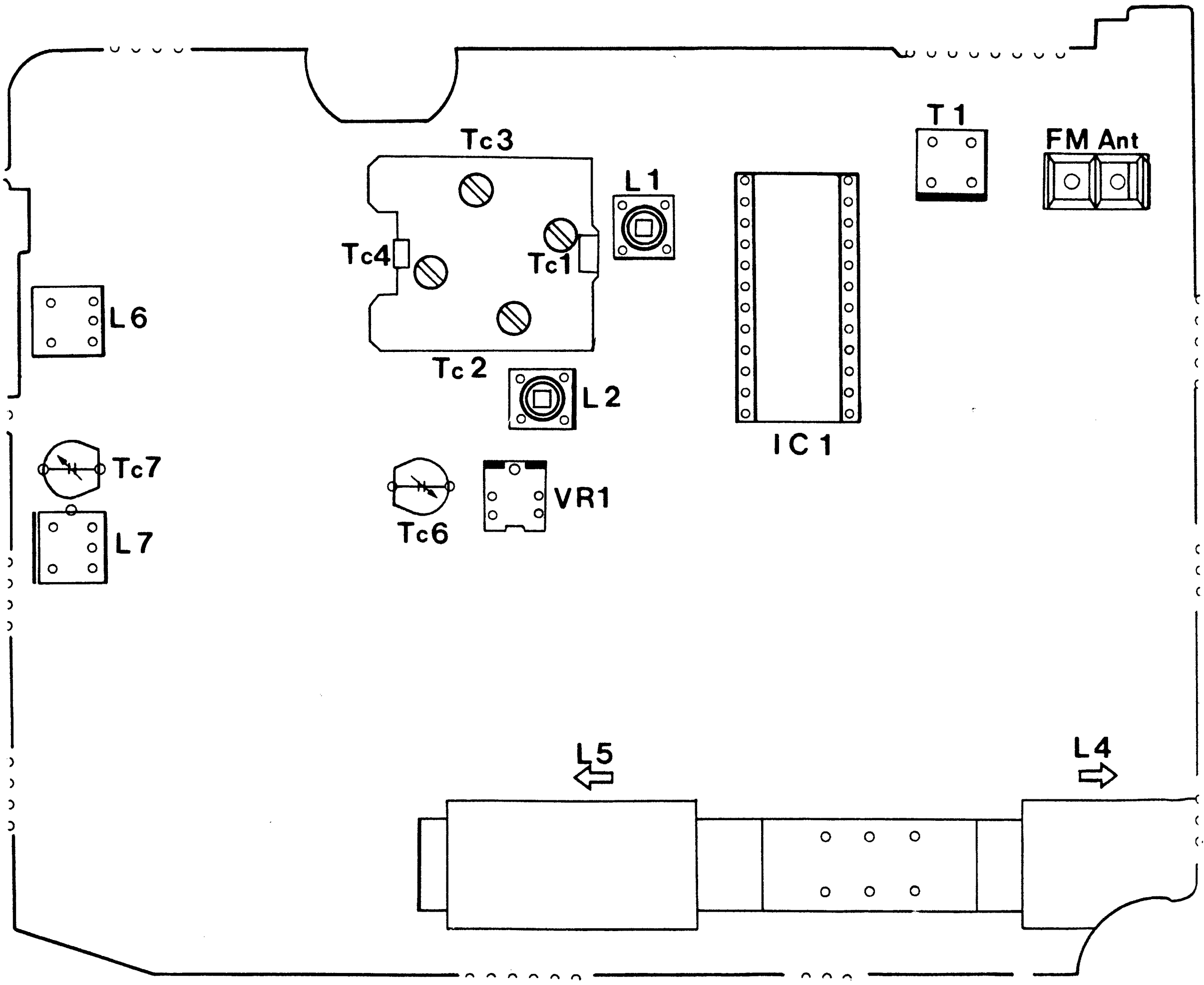
ADJUSTMENTS

IMPORTANT

1. Check power source voltage.
2. Set the function switch to band being aligned.
3. Keep the signal input as low as possible to adjust accurately.
4. Modulation and modulation frequency:

Item / Band	Moculation	Modulation frequency.
MW/LW	1 KHz	30%
FM	1 KHz	100% (75 KHz Dev.)

TEST AND ADJUSTMENT POINT


T 1
FM Ant
Tc3
L 1
Tc4
Tc1
L 6
Tc 2
L 2
I C 1
Tc7
Tc6
VR1
L 7
L5
L4

— RF P.C. BOARD—

TUNER SECTION

● MW IF ADJUSTMENT

IF Genescope . . . . The input connects on CN1 (R ch/L ch) and the output connects the body of MW Antenna coil (L4) through the dummy.

Adjust for the IF waveform of Genescope to be maximum. (See figure 2.)

Step	Dial pointer position	Genescope output (kHz)	Adjustment
1	High frequency	455	T1
2	Repeat step 1 several times.		

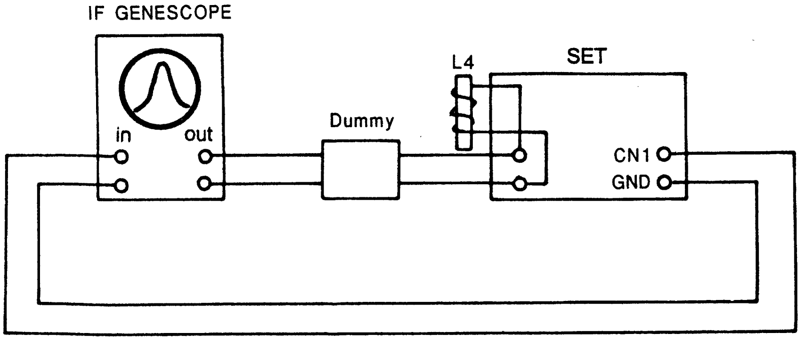


Figure 1. MW IF Adjustment Connection Diagram

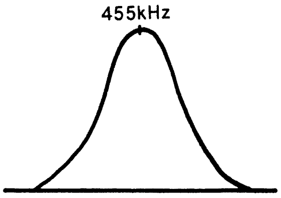


Figure 2. MW IF Curve

● MW RF ADJUSTMENT

Signal Generator . . . . Connects to the MW antenna coil (L4) through the loop antenna.

Adjust for the indication of SSVM or the waveform of scope to be maximum.

Step	Dial pointer position	SG. output(kHz)	Adjustment
1	Lowest frequency	455	T1
2	Highest frequency	1630	TC3
3	Repeat steps 1 and 2 several times.		
4	600kHz	600	L4
5	1400kHz	1400	TC4
6	Repeat steps 4 and 5 several times.		

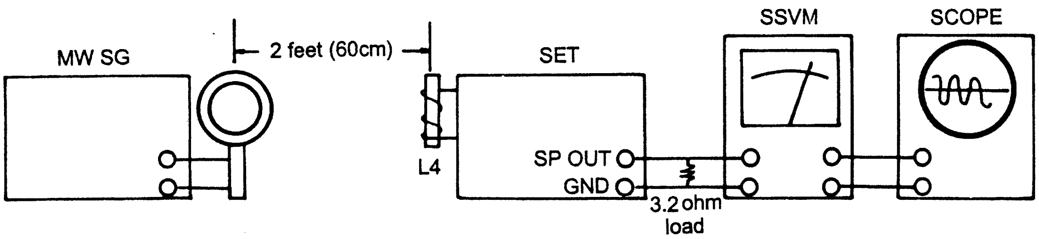


Figure 3. MW Band/tracking Adjustment Connection Diagram

● LW RF ADJUSTMENT

Signal Generator . . . . Connects to the LW antenna coil (L5) through the loop antenna.
Adjust for the indication of SSVM or wave form of scope to be maximum.

Step	Dial pointer position	SG. output(kHz)	Adjustment
1	Lowest frequency	140	L7
2	Highest frequency	290	TC7
3	Repeat steps 1 and 2 several times.		
4	160 kHz	160	L5
5	260 kHz	260	TC6
6	Repeat steps 4 and 5 several times.		

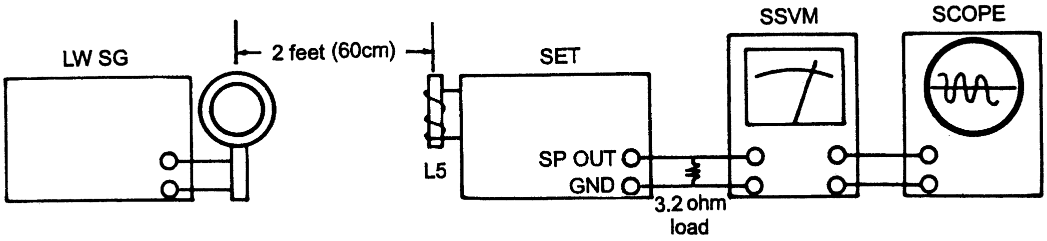


Figure 4. LW Band/tracking Adjustment Connection Diagram

● FM RF ADJUSTMENT

Signal Generator . . . . Connects to the FM antenna through the dummy.
Adjust for the indication of SSVM or wave form of scope to be maximum.

Step	Dial pointer position	SG. output(MHz)	Adjustment
1	Lowest frequency	87.35	L2
2	Highest frequency	108.25	TC2
3	Repeat steps 1 and 2 several times.		
4	90MHz	90	L1
5	106MHz	106	TC1
6	Repeat steps 4 and 5 several times.		

- **FM MPX ADJUSTMENT**

Stereo Signal Generator . . . Connect to the PN1. (98MHz, 60dB, 22.5kHz dev.)
Frequency Counter . . . . Connect to the PN3.

Step	Dial pointer position	SG. output(MHz)	Adjustment
1	98	76	VR1

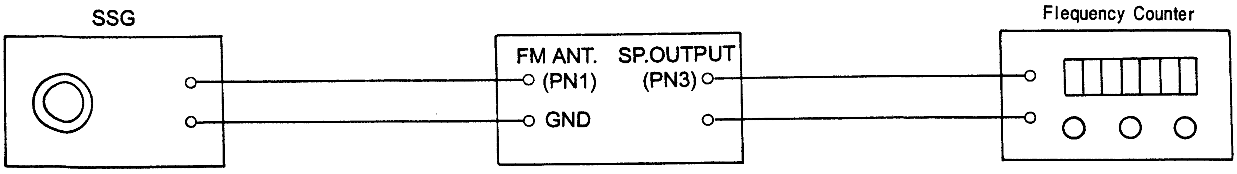
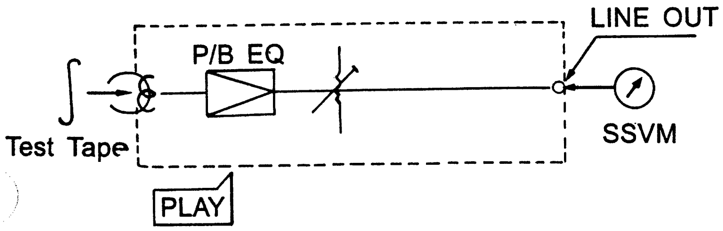

SSG
FM ANT.
(PN1)
GND
SP.OUTPUT
(PN3)
Flequency Counter

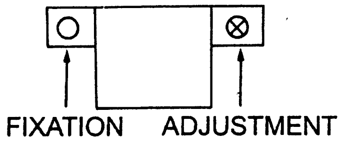
Figure 5. FM MPX Adjustment Connection Diagram.

DECK SECTION

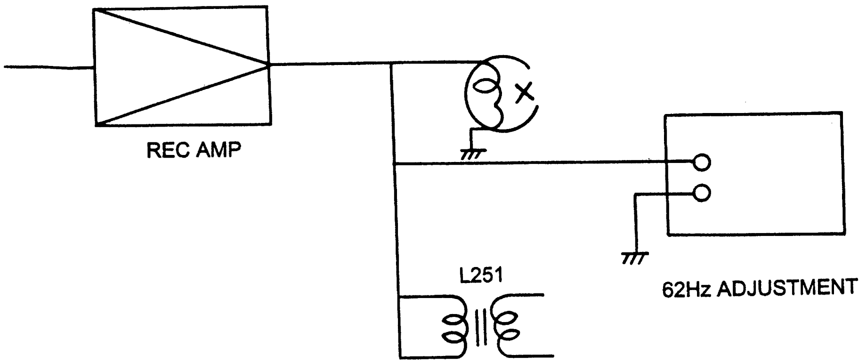
- **AZIMUTH ADJUSTMENT**


P/B EQ
LINE OUT
SSVM
Test Tape
PLAY

Step	Adjust for	Adjustment
MTT-114 (10kHz)	L/R Output	Head Adjustment Screw Azimuth


FIXATION
ADJUSTMENT

- **RECORDING BIAS FREQUENCY ADJUSTMENT**


REC AMP
L251
62Hz ADJUSTMENT

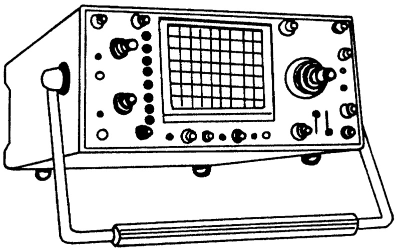
Input	Adjust for	Adjustment	Rif SW Position
No signal	62 ± 0.2kHz	L251	2

CDP SECTION

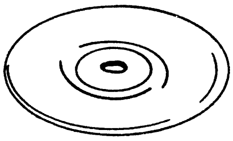
This compact disc player has been aligned at the factory and normally will not require further adjustment. As a result, it is not recommended that any attempt is made to modificate any circuit. If any parts are replaced or if anyone tampers with the adjustments, realignment may be necessary.

1. METER AND JIG FOR ADJUSTMENT

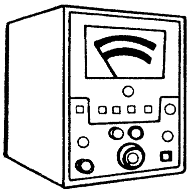
1-1. Oscilloscope



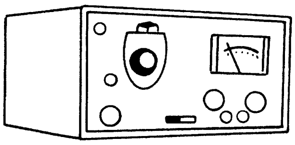
1-2. Test disc
(Sony type 4: YEDS-18)
(YEDS-43)



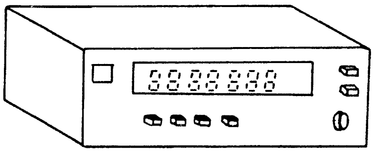
1-3. Jitter meter



1-4. Low frequency oscillator



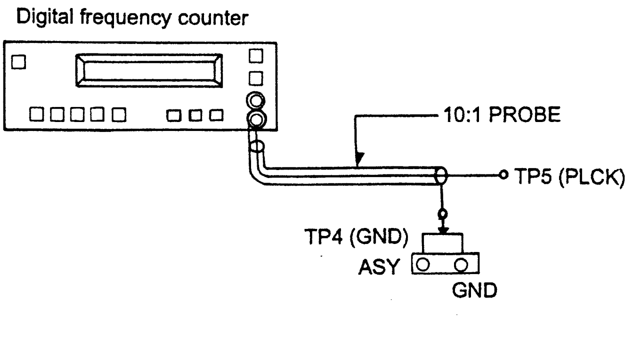
1-5. Digital frequency counter



1-6. 10:1 Oscilloscope probe
1:1 Oscilloscope probe

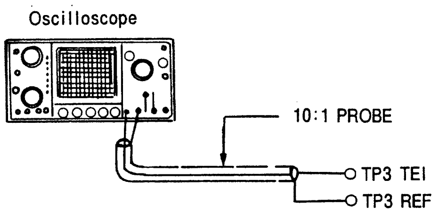
2. PLL (VCO) ADJUSTMENT

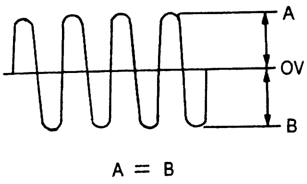
(1) Put unit into stop mode.
(2) Short-circuit test point(ASY) and test point (GND). (Both terminal SHORT) (TP4)
(3) Connect digital frequency counter to test point (PLCK) and test point (GND). (TP5)
(4) Adjust VR504 so that the frequency counter reading becomes 4.25±0.01MHz.



3. E • F BALANCE ADJUSTMENT (TRACKING BALANCE ADJUSTMENT)

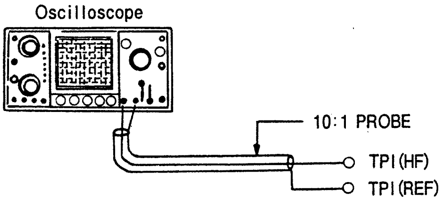
(1) Connect the oscilloscope to test point (TEO) in TP3 and REF.
(2) Short TES and REF. (TP3)
(3) Insert the TEST DISC, after play, Adjust VR501(T.B) so that the amplitude above and below the zero DC line becomes equal(amplitude A =B).

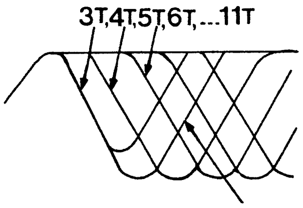

Oscilloscope
10:1 PROBE
TP3 TEI
TP3 REF



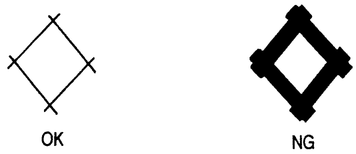
4. FOCUS OFFSET ADJUSTMENT

(1) Insert test disc and put unit into play mode.
(2) Connect oscilloscope to TP1 (HF, REF)
(3) Adjust VR502 so that eye pattern becomes clear and waveform (Vp-p) is maximum.
Note: When confirming eye pattern, you have to use 10:1 probe).


Oscilloscope
10:1 PROBE
TPI (HF)
TPI (REF)


3T,4T,5T,6T,...11T

EYE PATTERN



EYE PATTERN

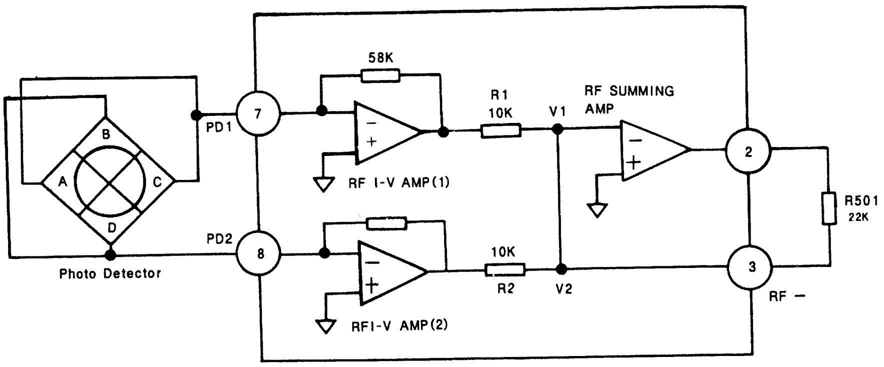
DESCRIPTION OF CIRCUIT

1. DESCRIPTION

The KA9201 is a RF amplifier for compact disc player. It is designed for 3-spot type optical pick-up assembly. The photo detector is composited of 6 light sensor (A through F). The photo detector A, B, C and D detectors for detecting audio modulation on the disc and also utilizing to develop focus error signal, the E and F photo detectors to detecting of tracking error signal.

2. OPERATING THEORY

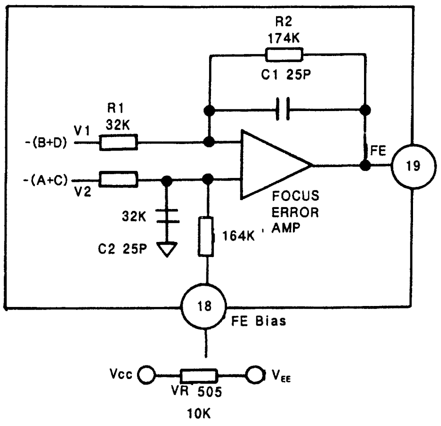
1) RF AMP


58K
R1
10K
V1
RF SUMMING
AMP
PD1
7
B
A
C
D
PD2
8
Photo Detector
RF I-V AMP(1)
10K
R2
V2
RFI-V AMP(2)
2
3
R501
22K
RF −

RF I-V AMP(1) and RF I-V AMP(2) are converted into voltage from current signal of PD1 (A+C) and PD2 (B+D) through the 58Kohm internal resistor. Furthermore, it is added in RF summing amplifier, this signal (A+B+C+D) is output at RFO (pin 2). The RF output voltage (low frequency) is as follow.

$$V_{RF} = -R3*(iPD1+iPD2)$$
$$= -R3*(V1/R1+V2/R2)$$
$$= -22K*(V1/10K+V2/10K)$$
$$= -2.2*(V1+V2)$$

2) FOCUS ERROR AMP


R2
174K
C1 25P
R1
32K
V1
-(B+D)
-(A+C)
V2
32K
C2 25P
164K
FOCUS
ERROR
AMP
FE
19
18
FE Bias
Vcc
VR 505
10K
VEE

The Focus Error AMP is the difference between RF I-V AMP(1) output (A+C) and RF I-V AMP (2) output (B+D). This two [—(A+C), —(B+D)] signals are each applied to the (—) and (+) input of Focus Error AMP.

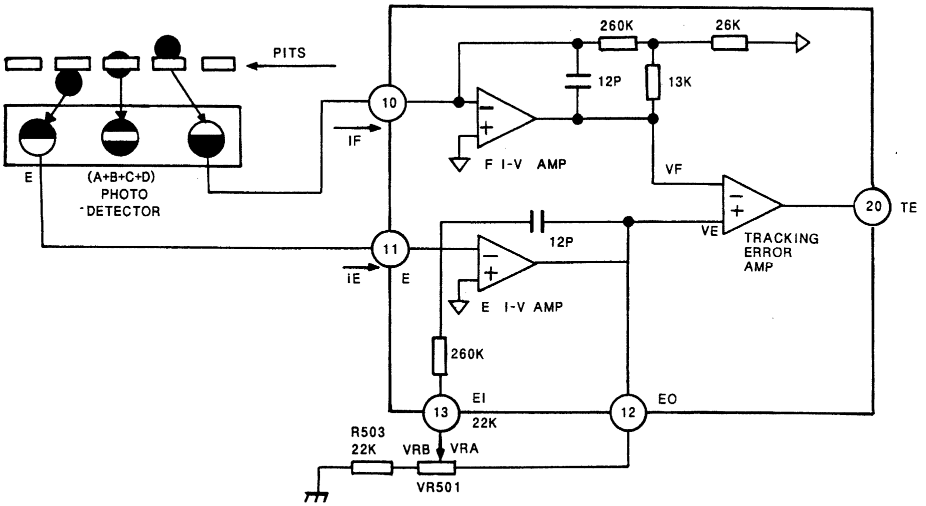
As the result of differential voltage, Focus Error signal is appeared at FE pin (pin 19).

This FE output voltage (low frequency) become [—(A+C), —(B+D)], as follow.

$$V_{FE} = R2/R1*(V2-V1)$$
$$= 5.4(V2-V1)$$

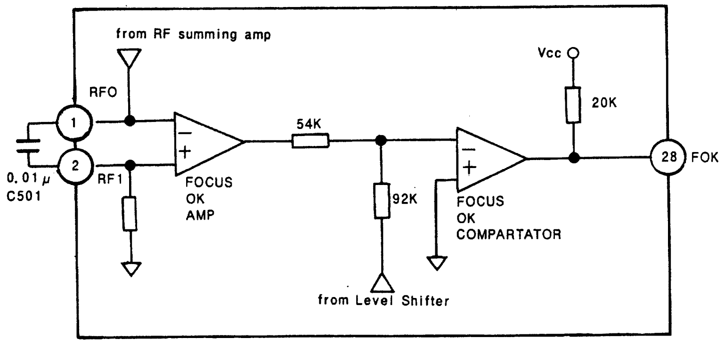
The focus error voltage is directed to the focus servo circuit, to maintain optimum focusing at all times.

3) TRACKING ERROR AMP


PITS
E
(A+B+C+D)
PHOTO
-DETECTOR
10
IF
11
iE
E
260K
26K
12P
13K
F I-V AMP
VF
VE
20
TE
TRACKING
ERROR
AMP
12P
E I-V AMP
260K
EI
13
22K
12
EO
R503
22K
VRB
VRA
VR501

The output of photo detector F is directed to the (—) input of F I-V amp, and output of photo detector E is directed to the (—) input of F I-V amp. These input signals are current. E I-V AMP and F I-V AMP are converted into voltage from the current signal. When correct tracking, two input (VF, VE) signals are equal. The occurence of tracking error is due to difference between F I-V amp output and E I-V amp output, and the TE output voltage is as follow.

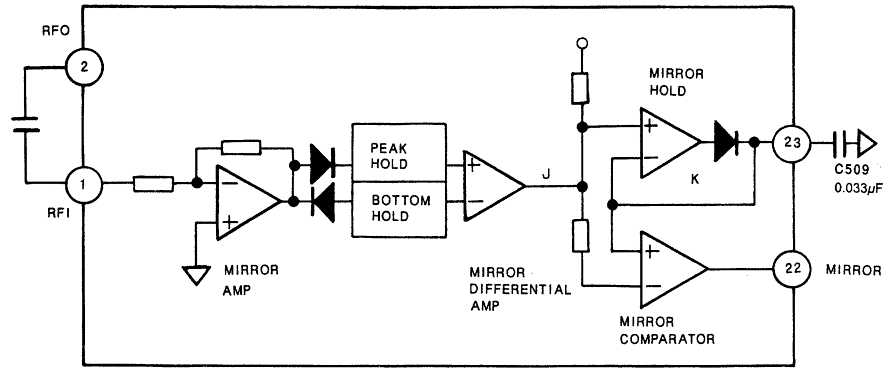
VF=iF*[260K* 13K/26K)+273K]
=iF* 403K
VE=iE*[260K*(VRA/VRB+22K)+(VRA+260K)
accordingly, V_{TE}=(iE-iF)*1290K


from RF summing amp
Vcc
RFO
1
2
0.01μ
C501
RF1
FOCUS
OK
AMP
54K
92K
20K
FOCUS
OK
COMPARTATOR
28
FOK
from Level Shifter

The focus OK circuit generates a timing window to look on the focus servo at focus search status. When RFO (Pin 2) voltage is more than —0.37 volt, the focus amp output is inverted. The RFI pin (Pin 1) will get the HPF output from a RF signal of RFO (Pin 2), and the Pin 2 is LPF output opposite for focus OK amplifier output. Time constants of HPF in EFM comparator and in mirror circuit, and that of LPF in focus OK amp are determined by the capacitor (0.01μ) between RFI and RFO.

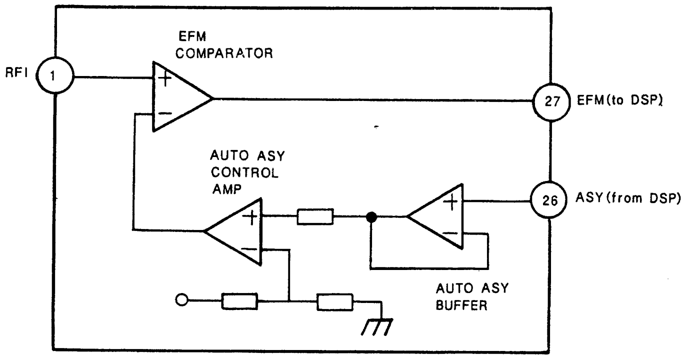
In case of 0.01μ F, cut-off frequency will be 1kHz. This capacitor reduce error due to damaged RF envelop result from the scratched disc, and so on.

5) MIRROR CIRCUIT


RFO
2
1
RFI
MIRROR
AMP
PEAK
HOLD
BOTTOM
HOLD
MIRROR
DIFFERENTIAL
AMP
J
MIRROR
HOLD
K
MIRROR
COMPARATOR
23
C509
0.033μF
22
MIRROR

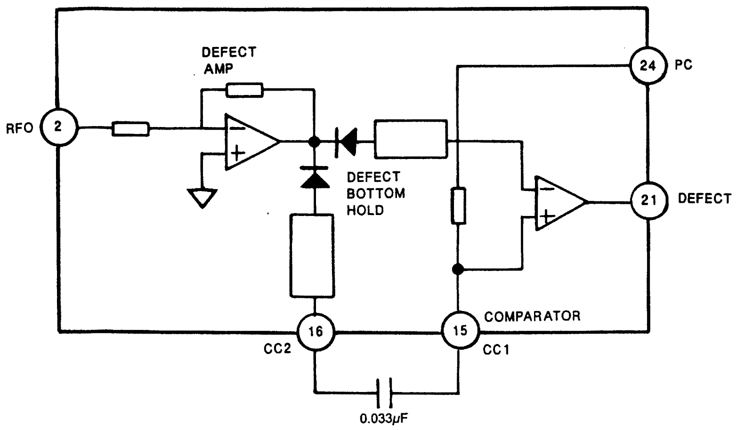
After RF input signal is amplified by Mirror AMP, it is held in Bottom & Peak hold circuit. Such a hold is determined by the time constant. Envelop signal J (demodulated to DC) is two-thirds of the peak value of this signal the time constant of J signal is held when it is larger than that of K signal. Therefore, mirror output is; Low at track on disc, High at between tracks on disc, High when defect is detected. The time constant of mirror hold required to be larger enough than that of traverse signal.

6) EFM (Eight to Fourteen) COMPARATOR


RFI
1
EFM
COMPARATOR
27
EFM(to DSP)
AUTO ASY
CONTROL
AMP
26
ASY(from DSP)
AUTO ASY
BUFFER

The EFM comparator convert a RF signal to a binary signal. A processing of disc production be occured disproportion because by modification of disc, that is not reduced by only AC coupling. The reference voltage of EFM comparator is controlled utilizing the fact that the generation-probability 1,0 is 50%. In the binary EFM signal, as this comparator is a current switching type, each of the high and low levels are differention feedback through power supply and C-MOS buffer. R1, R2, C1 and C2 if for get (Vcc+DGND)/2 Volt. When the cut-off frequency is larger than 500Hz, EFM low frequency may be deterioration, and black error rate may be bad.

7) DEFECT CIRCUIT

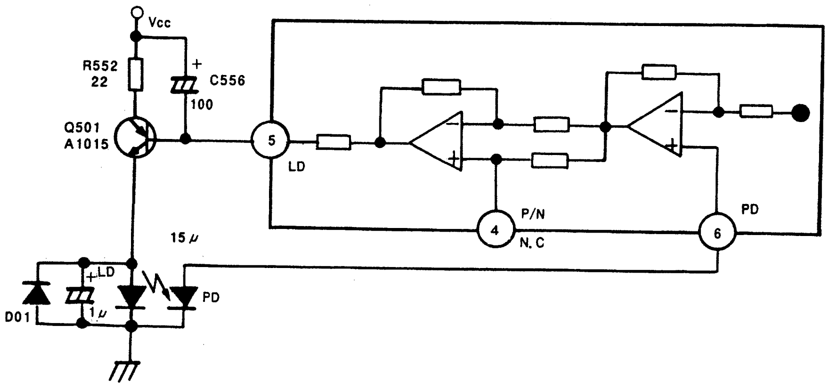

DEFECT AMP
RFO
2
DEFECT BOTTOM HOLD
24
PC
21
DEFECT
COMPARATOR
16
15
CC2
CC1
0.033μF

The bottom hold has had two time constant of long an short, after than the RFI signal inverted. The short time constant of bottom hold is generated by shoter than 0.1msec of disc mirror defect, and long time constant is generated by previous mirror level. Mirror defect detection signals are generated by differentiate on capacitor coupling and then transfer level.

8) APC (Automatic Power Control) Circuit

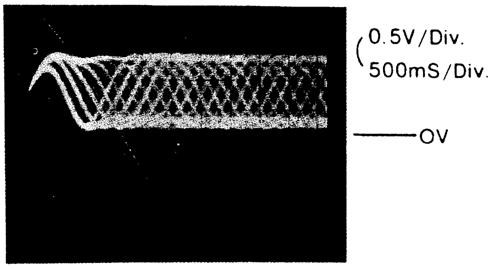
As the laser diode has had large negative temperature characteristic when do something for regularly supply current on laser diode. Therefore, the output on processing monitor photo diode, must be a controlled current for get regularly output power. Thus APC circuit composed, this circuit use for P-sub and N-sub of laser diode, sigle power supply operation as well as split power supply operation.

(1) +5V Signal Power Supply P-sub Laser

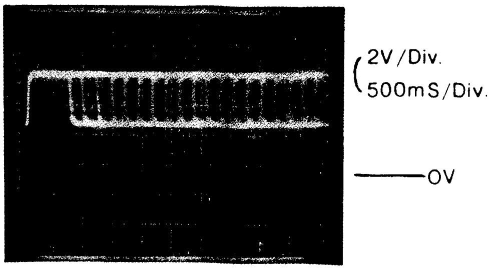

Vcc
R552
22
C556
100
Q501
A1015
5
LD
P/N
4
N.C
PD
6
15μ
LD
1μ
D01
PD

MAJOR WAVEFORM

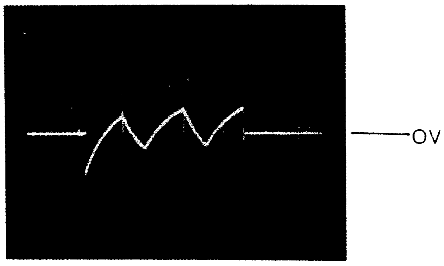
1. HF signal (RF signal) waveform (test point HF) during normal play.



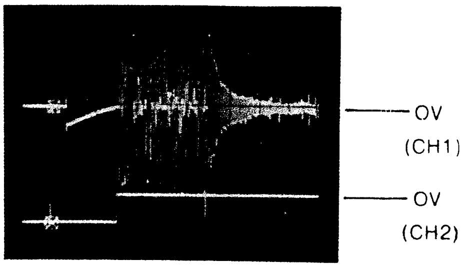
2. FM signal (pin NO. ㉗ IC501) waveform during normal play.



3. Focus coil drive waveform (FO of Pin NO. ②, ③ of IC506)
   - When focus search failed or there is no disc on the tray



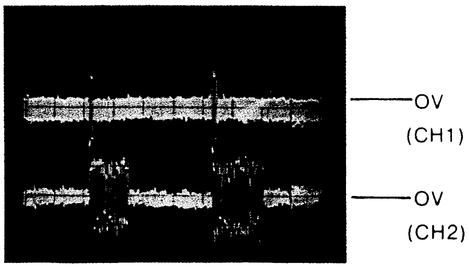
- Focus coil drive wave form (FO of Pin NO. ②, ③ of IC506) and FOK (pin NO. ㉘ of IC501) when focus search is accomplished



CH1 : FOCUS COIL DRIVE SIGNAL
2V/div.
CH2 : FOK

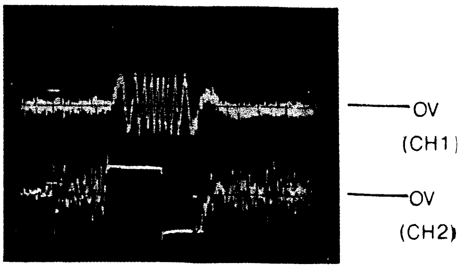
4. Tracking coil drive waveform ⑧, ⑨ of IC506) and TEO during track traverse

(1) When time division is 20mS/div.



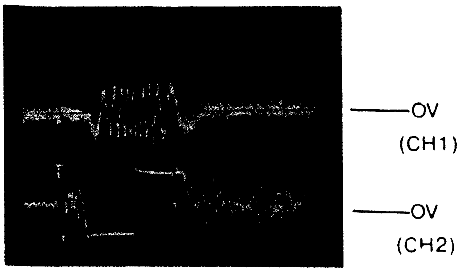
CH1 : TEO
1V/div.
CH2 : TRACKING COIL DRIVE SIGNAL
2V/div.

(2) When time division is 0.5mS/div.
(During forward track traverse)

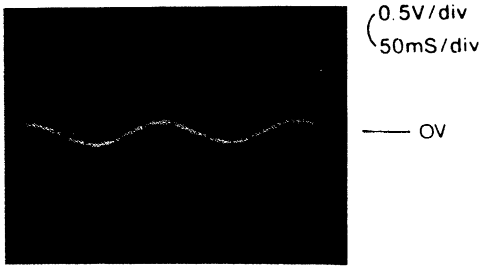


CH1 : TEO
1V/div.
CH2 : TRACKING COIL DRIVE SIGNAL
2V/div.

(3) When time division is 0.5mS/div.
(During backward track traverse)



5. Feed motor drive waveform No. ⑧, ⑨
of IC507) During normal play



CH1 : TEO
1V/div.
CH2 : TRACKING COIL DRIVE SIGNAL
2V/div.

PIN FUNCTION OF IC503 (KS5990)

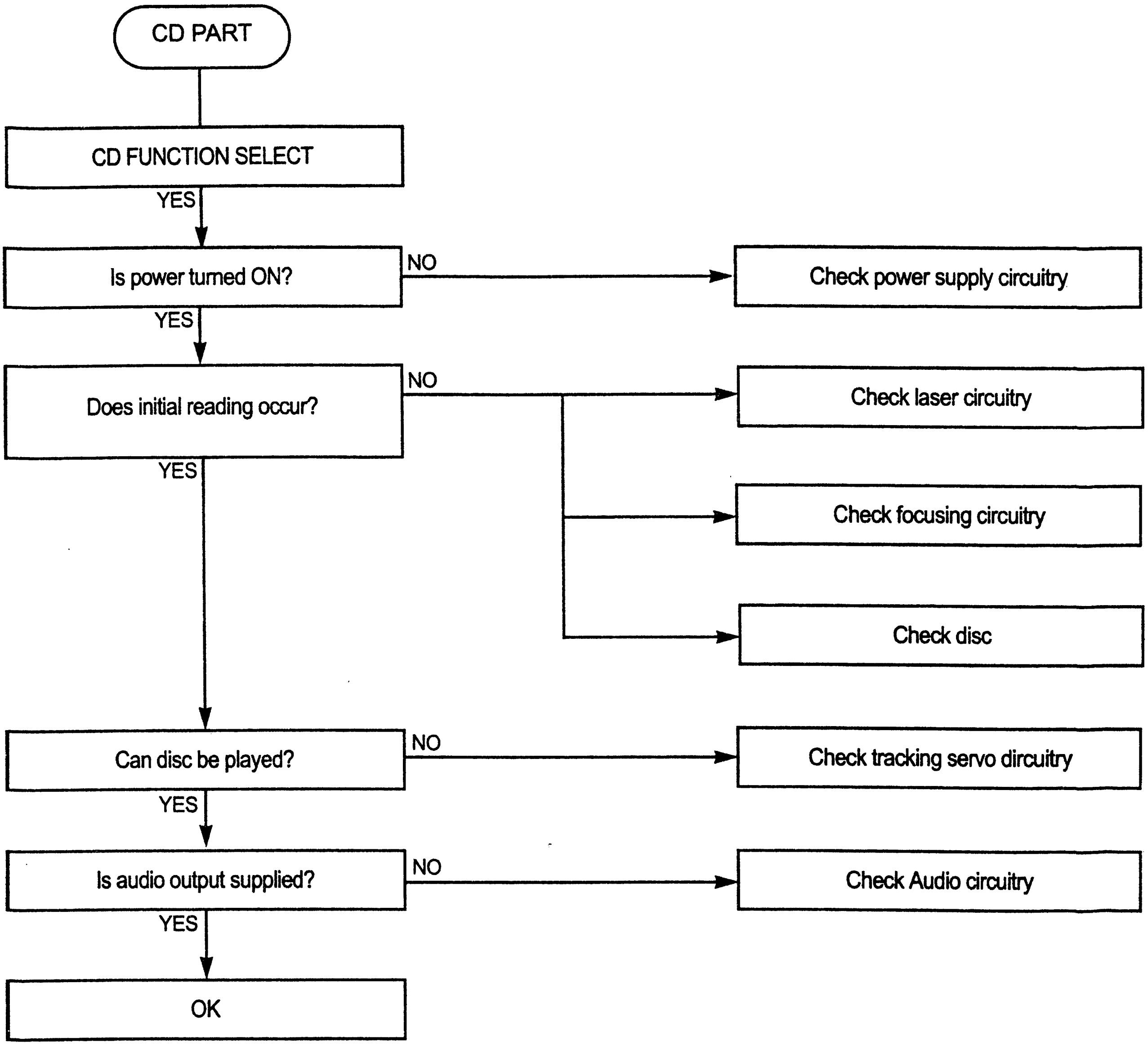
No.	Symbol	I/O	Description
1	SMEF	O	Pin 1 output is switched constant when output filter of the spindle motor is energized.
2	SMON	O	ON/OFF control for spindle motor.
3	SMPD	O	Spindle motor drive. Provides rough control during CLV-S mode and phase control during CLV-P mode.
4	SMSD	O	Spindle motor drive. Controls speed during CLV-P mode.
5	EFMZ	I	EFM signal from RF amplifier.
6	EFMO	O	Controls slice level of the EFM signal.
7	LOCK	O	The output of pin 7 reflects the status of the GFS signal which is sampled at PBFR/16. When the GFS signals is "H", but, when the signal has remained "L" for at least 8 samples, the output of pin 7 is "L".
8	VCOO	O	VCO output. The frequency is f=8.6436MHz, when locked by the DEFR signal.
9	VCOI	I	VCO input.
10	TEST	I	(0V).
11	PHAS	O	The output of Pin 11 provides phase comparison of EFM signal and VCO/2.
12	V_{SS}	—	GND (0V).
13	MCK	I	Pin 13 provides serial transmission clock from the CPU. Data is latched on the leading edge of the clock.
14	MLT	I	Pin 14 provides latch input clock from the CPU. 8-bit shift register data (serial data received from the CPU) is latched in each of the registers.
15	MDAT	I	Serial data from the CPU.
16	XRST	I	System reset ("L").
17	TRCK	I	Tracking pulse input.

No.	Symbol	I/O	Description
18	ISTAT	O	Output reflecting internal condition as designated by address.
19	MUTE	I	Muting input. MUTE is "L" when ATTM of internal register A is "L" (normal condition). MUTE is "H" when meting condition is set.
20	SQOK	O	Output the results CRC check of subcode Q.
21	SBCK	I	Clock input for subcode serial output
22	SDAT	O	Serial output of subcode.
23	SQDT	O	Output of subcode Q.
24	S0S1	O	Output of subcode sync S0+S1.
25	SQCK	I/O	Clock for reading subcode Q.
26	SQEN	I	Input for selecting SQCK (L; SQCK is output, H; SQCK is input)
27	SRAM	I	SRAM is "H" in Normal, SRAM is "L" when system is testing.
28	LKFS	O	Display output for frame sync lock status.
29	DB8	I/O	Data pin for external RAM. DATA8 (MSB) in test mode. Hi-Z in nomal
30	DB7	I/O	Data pin for external RAM. DATA7 in test mode. Hi-Z in nomal
31	DB6	I/O	Data pin for external RAM. DATA6 in test mode. Hi-Z in nomal
32	DB5	I/O	Data pin for external RAM. DATA5 in test mode. Hi-Z in nomal
33	V_{DD}	—	Power supply (+5V).
34	DB4	I/O	Data pin for external RAM. DATA4 in test mode. Hi-Z in nomal
35	DB3	I/O	Data pin for external RAM. DATA3 in test mode. Hi-Z in nomal
36	DB2	I/O	Data pin for external RAM. DATA2 in test mode. Hi-Z in nomal
37	DB1	I/O	Data pin for external RAM. DATA1 (LSB) in test mode. Hi-Z in nomal
38	AD01	O	(LSB)
39	AD02	O	In nomal mode (TEST="L", SRAM="H"), these pins are High impedance (Hi-Z) In test mode (TEST="H", SRAM="L"), these pins are Output address of external RAM.
40	AD03	O	
41	AD04	O	
42	AD05	O	
43	AD06	O	
44	AD07	O	
45	AD08	O	
46	AD09	O	
47	AD10	O	
48	AD11	O	(MSB)
49	WE	I/O	In nomal mode, this is WE output. In test mode, write enable input.
50	CE	I/O	In nomal mode, this is CE output. In test mode, chip enable input.
51	4MCK	O	Drvider output for crystal. f=4.2336MHz
52	V_{SS}	—	GND (0V).
53	XIN	IN	Input to crystal oscillator circuit. Depending on the mode the frequency is either=8.4672 or 16.9344MHz.
54	XOUT	O	Output from crystal oscillator circuit. Depending on the mode the frequency is either f=8.4672 or 16.9344MHz.
55	SEL1	I	Mode selection input 1.
56	SEL2	I	Mode selection input 2.
57	SEL3	I	Mode selection input 3.

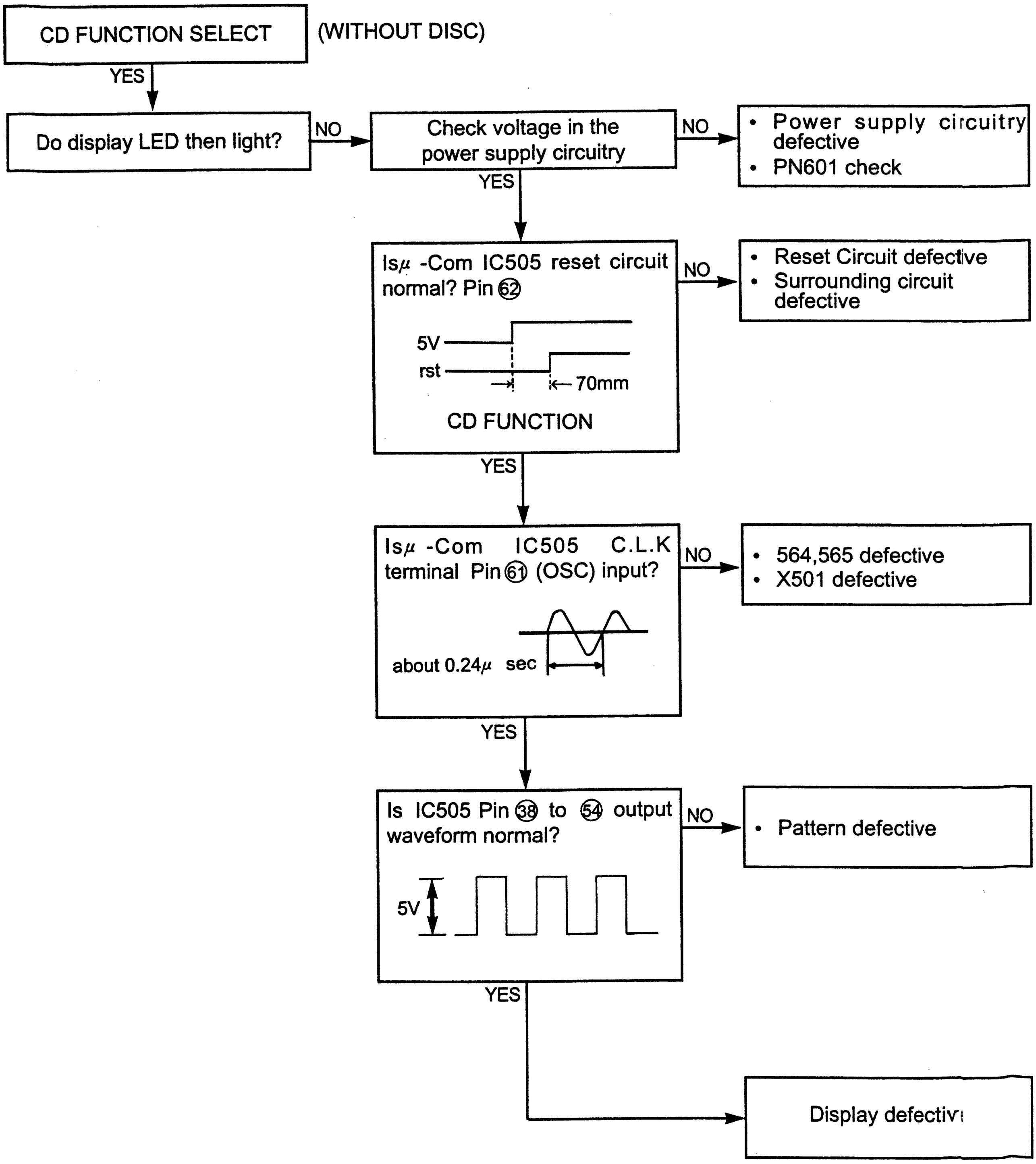
No.	Symbol	I/O	Description
58	SEL4	I	Mode selection input 4. Code switch input for audio data output. 2's complement output when "L", offset binary output when "H".
59	SEL5	I	Mode selection input 5. Code switch input for audio data output. Serial output when "L", parallel output when "H".
60	APTR	O	Output for aperture compensation. "H" when R-ch.
61	APTL	O	Output for aperture compensation. "H" when L-ch.
62	C1F1	O	Monitor output reporting status of error correction for C1 decoder. When SEL5="L", DA01 (LSB of parallel audio data) is output when SEL5 ="H".
63	C1F2	O	Monitor output reporting status of error correction for C1 decoder when SEL5= "L", DA02 is output when SEL5="H".
64	C2F1	O	Monitor output reporting status of error correction for C2 decoder when SEL5= "L", DA03 is output when SEL5="H".
65	C1F2	O	Monitor output reporting status of error correction for C2 decoder when SEL5= "L", DA04 is output when SEL5="H".
66	C2FL	O	When SEL5="L", output of status condition. C2FL is set "H" when the C2 sequence. Presently being corrected becomes impossible to correct. DA05 is output when SEL5="H".
67	C2PO	O	Display output of the C2 pointer when SEL5="L",. DA06 is output when SEL5="H".
68	XTFR	O	When SEL5="L", output of read frame dock which is 7.35KHz of the crystal system. DA07 is output when SEL5="H".
69	PBFR	O	When SEL5="L", output of write frame clock which is 7.35KHz when locked by the crystal system. DA0 9 is output when SEL5="H".
70	PBCK	O	When SEL5="L", output of VCO/2 (f=4.3218MHz when locked by the EFM signal). DA09 is output when SEL5="H".
71	FSDW	O	When SEL5="L", output for unprotected frame sync patterns. DA10 is output when SEL5="H".
72	ULKFS	O	Output for display of status of frame sync protection when SEL5="L", DA11 is output when SEL5="H".
73	V_{DD}	—	Power supply (+5V).
74	JIT	O	When SEL5="L", output for display of either RAM overflow or underflow for +4 frame jitter absorption. DA12 is output when SEL5="H".
75	ZWDCK	O	When SEL5="L", output for strobe signal (352.8KHz when DF is ON, 176.4KHz when DF is OFF). DA13 is output when SEL5="H".
76	BLCK	O	When SEL5="L", inverser output of BLCK. DA14 is output when SEL5 = "H".
77	BLCK	O	When SEL5="L", bit clock output (4.2336MHz when DF is ON, 2.1168MHz when DF is OFF) DA15 is output when SEL5="H".
78	DATA	O	Serial data output of audio signal when SEL5="L". DA16 is output when SEL5="H".
79	WDCK	O	Strobe signal output. Output is 176.4KHz when DF is on. Output is 88.2KHz when DF is off.
80	CHCK	O	Strobe signal output. Output is 88.2KHz when DF is on. Output is 44.1KHz when DF is off.

No.	Symbol	I/O	Description
70	PBCK	O	When SEL5="L", output of VCO/2 (f=4.3218MHz when locked by the EFM signal). DA09 is output when SEL5="H".
71	FSDW	O	When SEL5="L", output for unprotected frame sync patterns. DA10 is output when SEL5="H".
72	ULKFS	O	Output for display of status of frame sync protection when SEL5="L", DA11 is output when SEL5="H".
73	V_{DD}	—	Power supply (+5V).
74	JIT	O	When SEL5="L", output for display of either RAM overflow or underflow for +4 frame jitter absorption. DA12 is output when SEL5="H".
75	ZWDCK	O	When SEL5="L", output for strobe signal (352.8KHz when DF is ON, 176.4KHz when DF is OFF). DA13 is output when SEL5="H".
76	BLCK	O	When SEL5="L", inverser output of BLCK. DA14 is output when SEL5="H".
77	BLCK	O	When SEL5="L", bit clock output (4.2336MHz when DF is ON, 2.1168MHz when DF is OFF) DA15 is output when SEL5="H".
78	DATA	O	Serial data output of audio signal when SEL5="L". DA16 is output when SEL5="H".
79	WDCK	O	Strobe signal output. Output is 176.4KHz when DF is on. Output is 88.2KHz when DF is off.
80	CHCK	O	Strobe signal output. Output is 88.2KHz when DF is on. Output is 44.1KHz when DF is off.

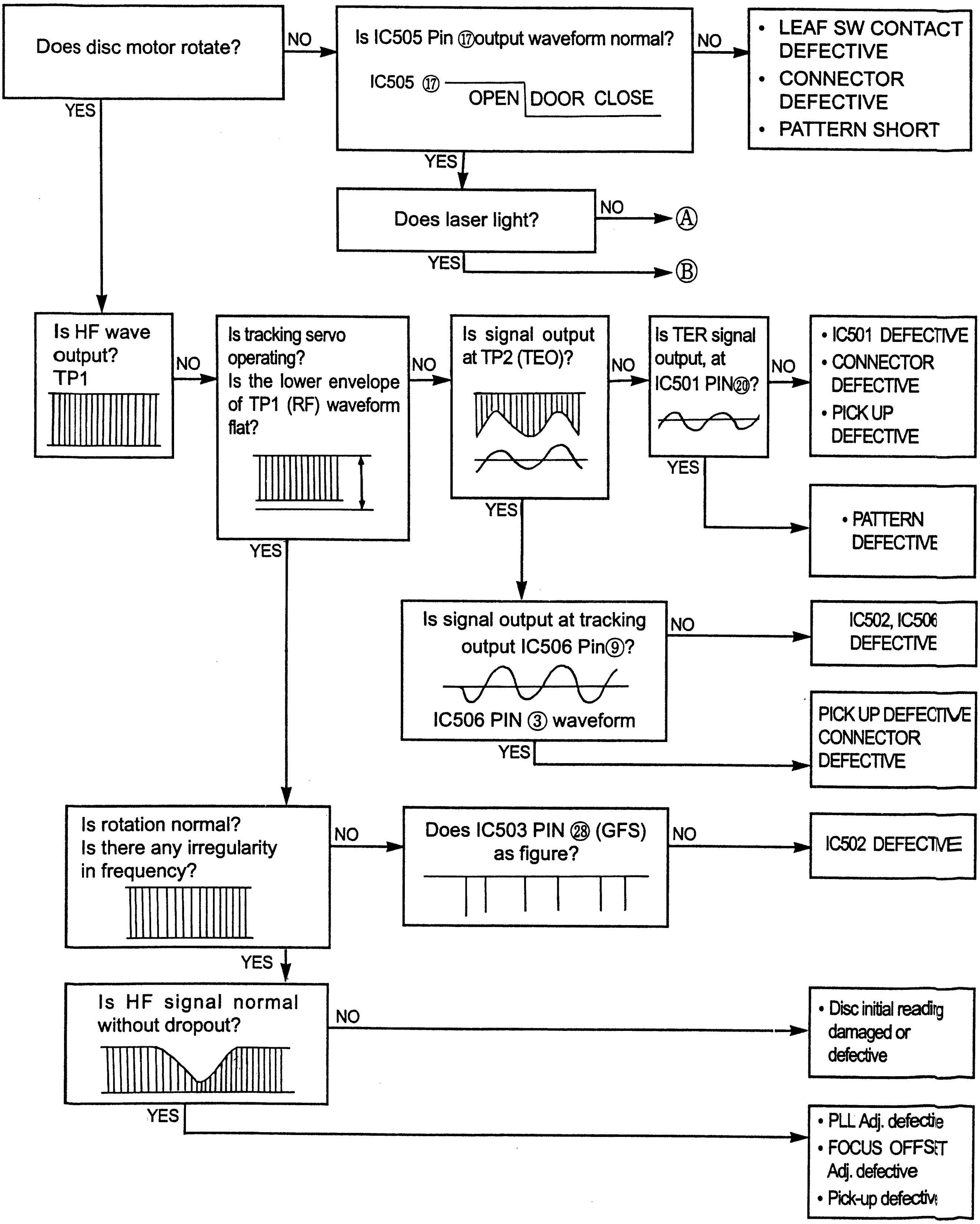
TROUBLESHOOTING GUIDE


CD PART
CD FUNCTION SELECT
YES
Is power turned ON?
NO
Check power supply circuitry
YES
Does initial reading occur?
NO
Check laser circuitry
Check focusing circuitry
Check disc
YES
Can disc be played?
NO
Check tracking servo dircuitry
YES
Is audio output supplied?
NO
Check Audio circuitry
YES
OK

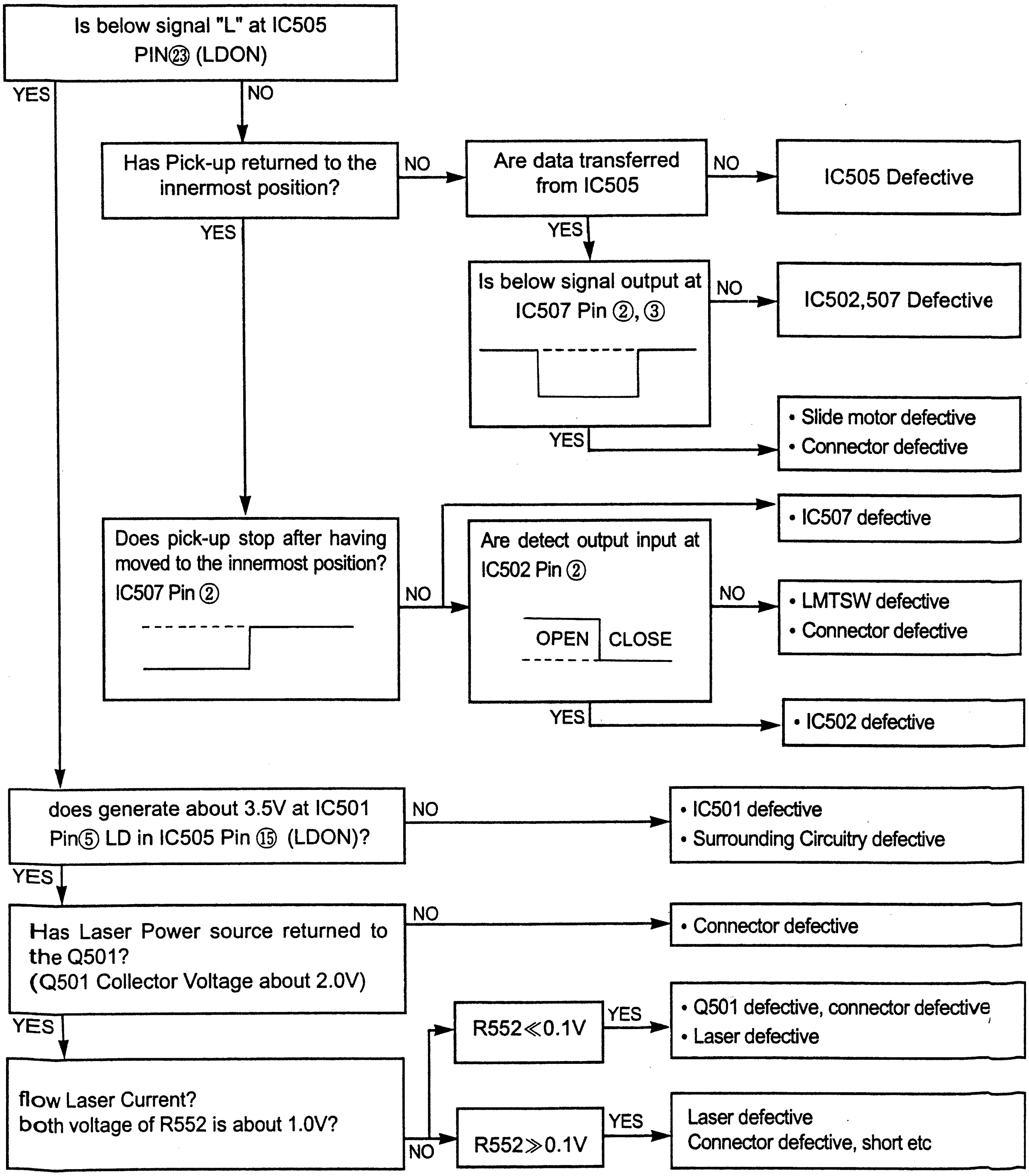
(1) If display LED lighting is not normal

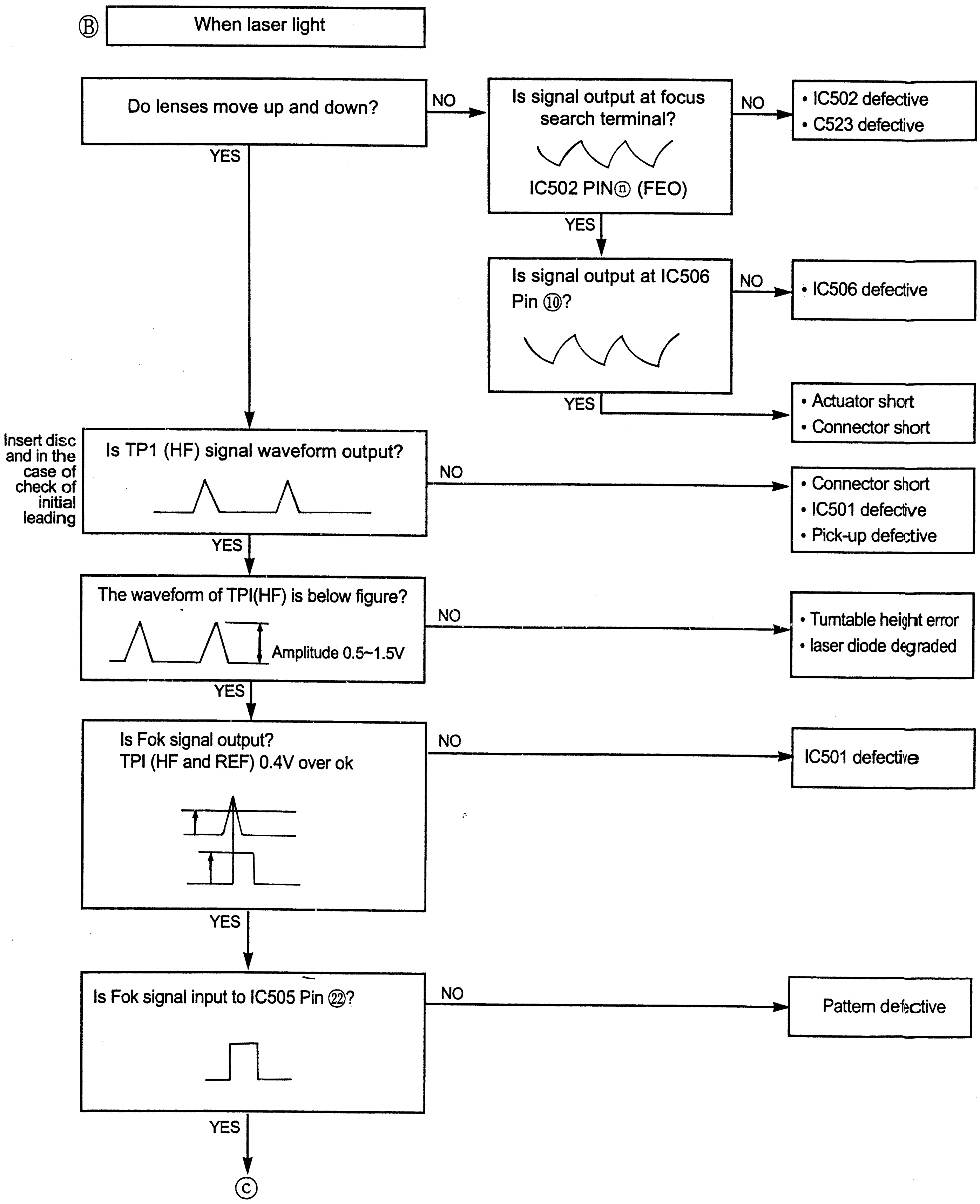

CD FUNCTION SELECT
(WITHOUT DISC)
YES
Do display LED then light?
NO
Check voltage in the power supply circuitry
NO
• Power supply circuitry defective
• PN601 check
YES
Isμ -Com IC505 reset circuit normal? Pin 62
5V
rst
70mm
CD FUNCTION
NO
• Reset Circuit defective
• Surrounding circuit defective
YES
Isμ -Com IC505 C.L.K terminal Pin 61 (OSC) input?
about 0.24μ sec
NO
• 564,565 defective
• X501 defective
YES
Is IC505 Pin 38 to 54 output waveform normal?
5V
NO
• Pattern defective
YES
Display defective

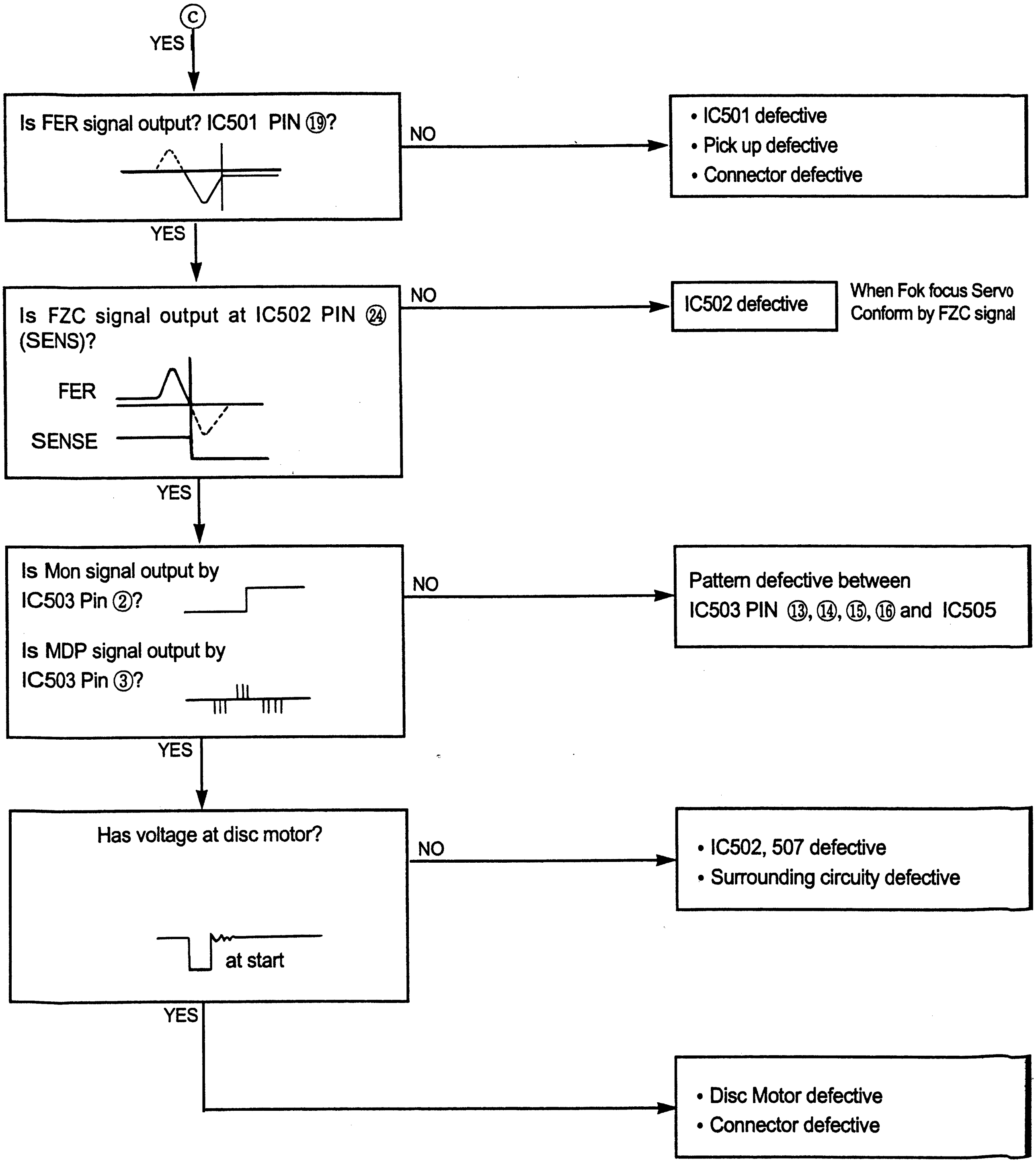
(2) If initial reading is not carried out (with disc)


Does disc motor rotate?
NO
Is IC505 Pin ⑰output waveform normal?
IC505 ⑰
OPEN
DOOR CLOSE
NO
• LEAF SW CONTACT DEFECTIVE
• CONNECTOR DEFECTIVE
• PATTERN SHORT
YES
Does laser light?
NO
Ⓐ
YES
Ⓑ
YES
Is HF wave output? TP1
NO
Is tracking servo operating? Is the lower envelope of TP1 (RF) waveform flat?
NO
Is signal output at TP2 (TEO)?
NO
Is TER signal output, at IC501 PIN⑳?
NO
• IC501 DEFECTIVE
• CONNECTOR DEFECTIVE
• PICK UP DEFECTIVE
YES
• PATTERN DEFECTIVE
YES
Is signal output at tracking output IC506 Pin⑨?
IC506 PIN ③ waveform
NO
IC502, IC506 DEFECTIVE
YES
PICK UP DEFECTIVE CONNECTOR DEFECTIVE
YES
Is rotation normal? Is there any irregularity in frequency?
NO
Does IC503 PIN ㉘ (GFS) as figure?
NO
IC502 DEFECTIVE
YES
Is HF signal normal without dropout?
NO
• Disc initial reading damaged or defective
YES
• PLL Adj. defective
• FOCUS OFFSET Adj. defective
• Pick-up defective

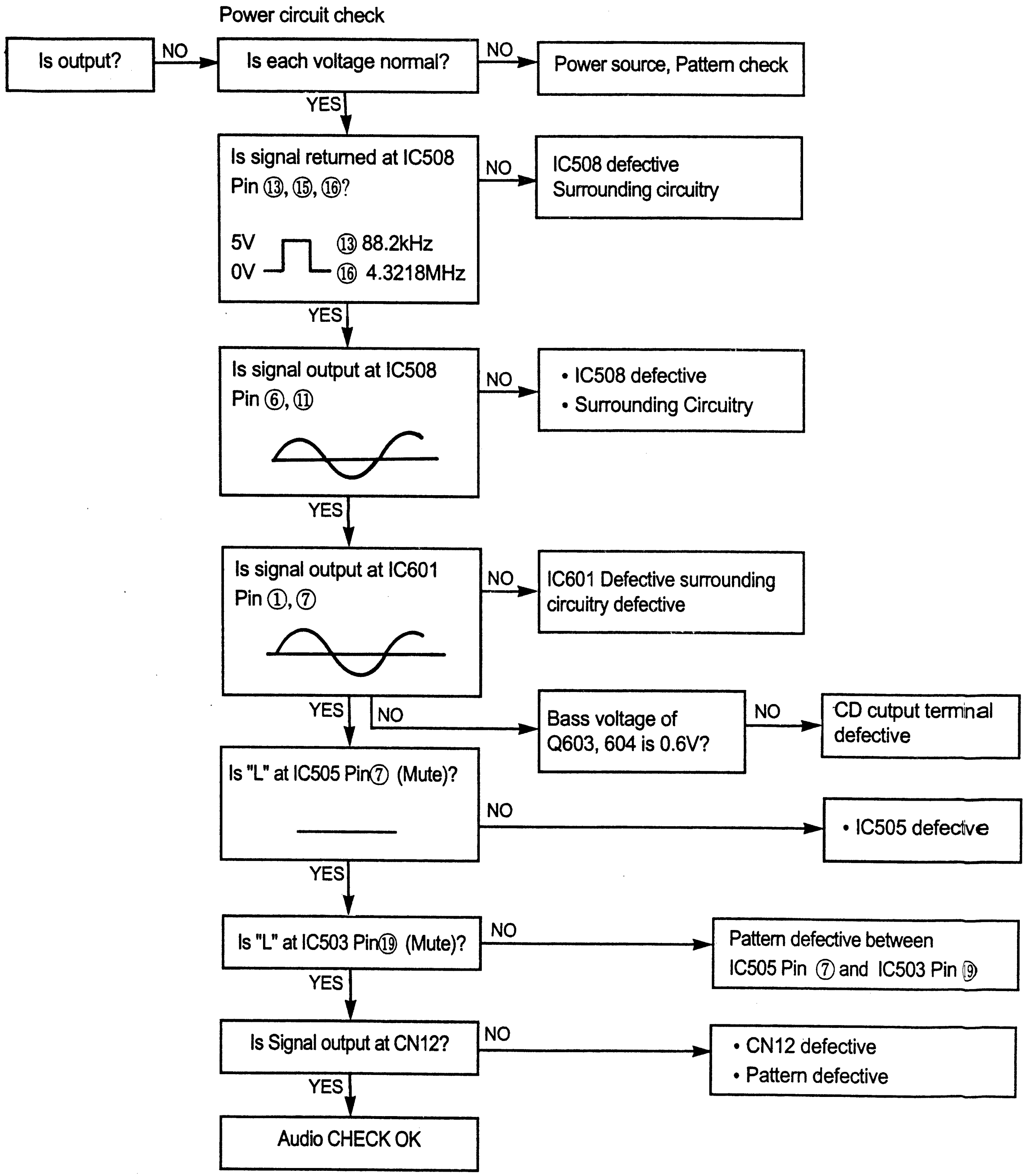
Ⓐ When laser does not light


Is below signal "L" at IC505 PIN㉓ (LDON)
YES
NO
Has Pick-up returned to the innermost position?
NO
YES
Are data transferred from IC505
NO
IC505 Defective
YES
Is below signal output at IC507 Pin ②, ③
NO
IC502,507 Defective
YES
• Slide motor defective
• Connector defective
Does pick-up stop after having moved to the innermost position? IC507 Pin ②
NO
• IC507 defective
Are detect output input at IC502 Pin ②
OPEN
CLOSE
NO
• LMTSW defective
• Connector defective
YES
• IC502 defective
does generate about 3.5V at IC501 Pin⑤ LD in IC505 Pin ⑮ (LDON)?
NO
• IC501 defective
• Surrounding Circuitry defective
YES
Has Laser Power source returned to the Q501? (Q501 Collector Voltage about 2.0V)
NO
• Connector defective
YES
flow Laser Current? both voltage of R552 is about 1.0V?
NO
R552≪0.1V
YES
• Q501 defective, connector defective
• Laser defective
R552≫0.1V
YES
Laser defective
Connector defective, short etc


Ⓑ
When laser light
Do lenses move up and down?
NO
Is signal output at focus search terminal?
IC502 PINⓝ (FEO)
NO
• IC502 defective
• C523 defective
YES
Is signal output at IC506 Pin ⑩?
NO
• IC506 defective
YES
• Actuator short
• Connector short
YES
Insert disc and in the case of check of initial leading
Is TP1 (HF) signal waveform output?
NO
• Connector short
• IC501 defective
• Pick-up defective
YES
The waveform of TPI(HF) is below figure?
Amplitude 0.5~1.5V
NO
• Turntable height error
• laser diode degraded
YES
Is Fok signal output?
TPI (HF and REF) 0.4V over ok
NO
IC501 defective
YES
Is Fok signal input to IC505 Pin ㉒?
NO
Pattern defective
YES
ⓒ

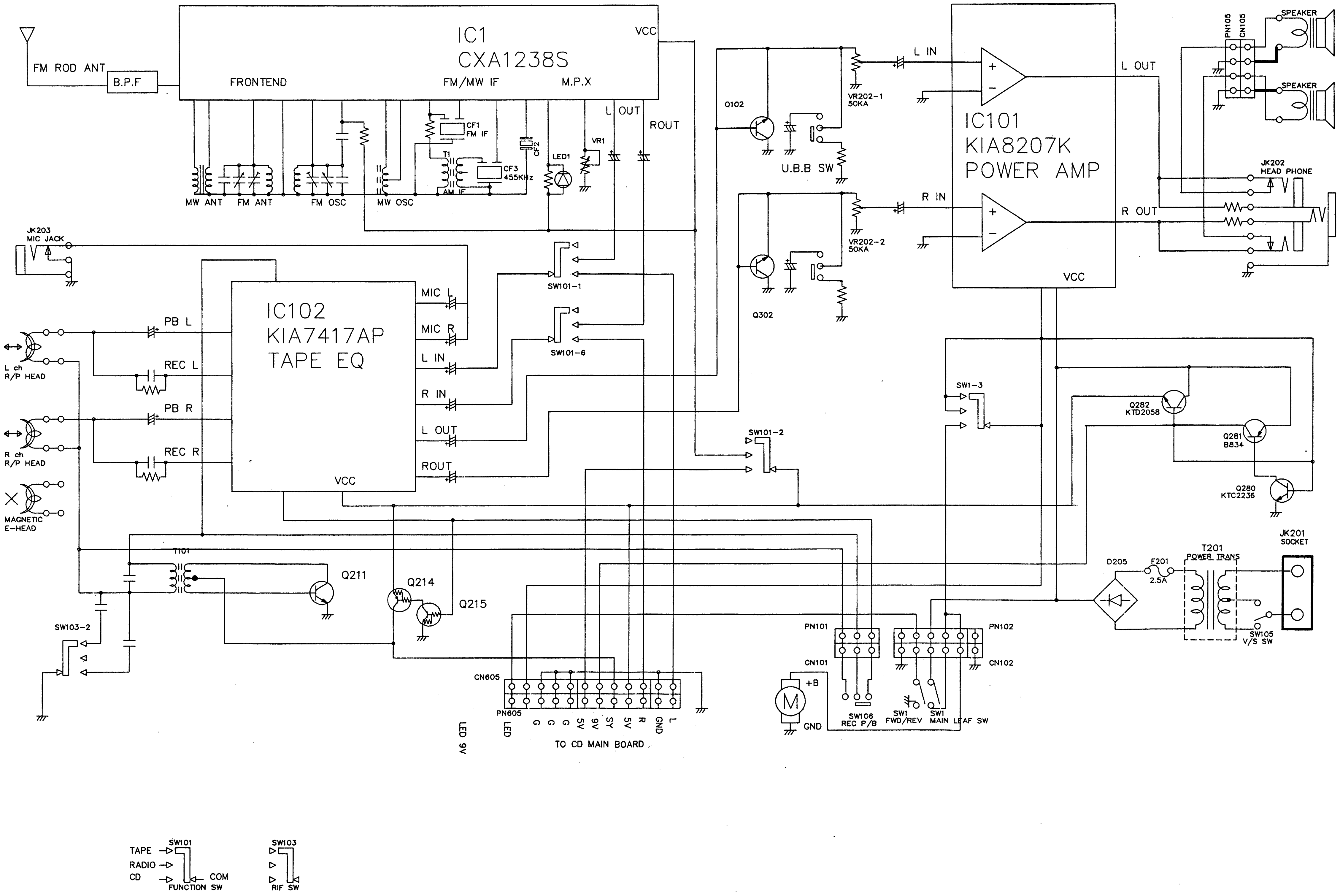

Ⓒ
YES
Is FER signal output? IC501 PIN ⑲?
NO
• IC501 defective
• Pick up defective
• Connector defective
YES
Is FZC signal output at IC502 PIN ㉔ (SENS)?
FER
SENSE
NO
IC502 defective
When Fok focus Servo Conform by FZC signal
YES
Is Mon signal output by IC503 Pin ②?
Is MDP signal output by IC503 Pin ③?
NO
Pattern defective between IC503 PIN ⑬, ⑭, ⑮, ⑯ and IC505
YES
Has voltage at disc motor?
at start
NO
• IC502, 507 defective
• Surrounding circuity defective
YES
• Disc Motor defective
• Connector defective

Audio check

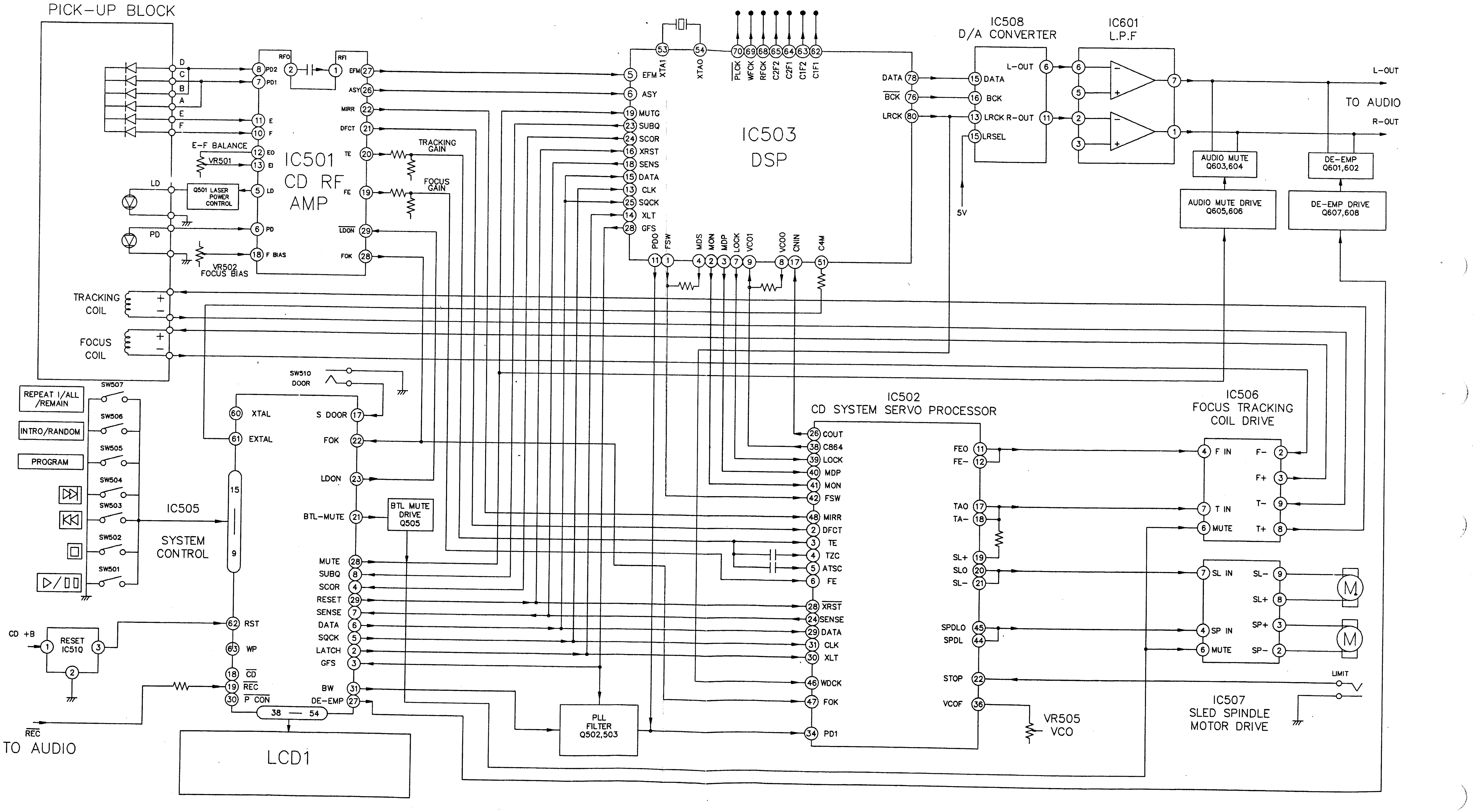

Power circuit check
Is output?
NO
Is each voltage normal?
NO
Power source, Pattern check
YES
Is signal returned at IC508 Pin ⑬, ⑮, ⑯?
5V
0V
⑬ 88.2kHz
⑯ 4.3218MHz
NO
IC508 defective
Surrounding circuitry
YES
Is signal output at IC508 Pin ⑥, ⑪
NO
• IC508 defective
• Surrounding Circuitry
YES
Is signal output at IC601 Pin ①, ⑦
NO
IC601 Defective surrounding circuitry defective
YES
NO
Bass voltage of Q603, 604 is 0.6V?
NO
CD output terminal defective
Is "L" at IC505 Pin⑦ (Mute)?
NO
• IC505 defective
YES
Is "L" at IC503 Pin⑲ (Mute)?
NO
Pattern defective between IC505 Pin ⑦ and IC503 Pin ⑨
YES
Is Signal output at CN12?
NO
• CN12 defective
• Pattern defective
YES
Audio CHECK OK

BLOCK DIAGRAM

● AUDIO SECTION

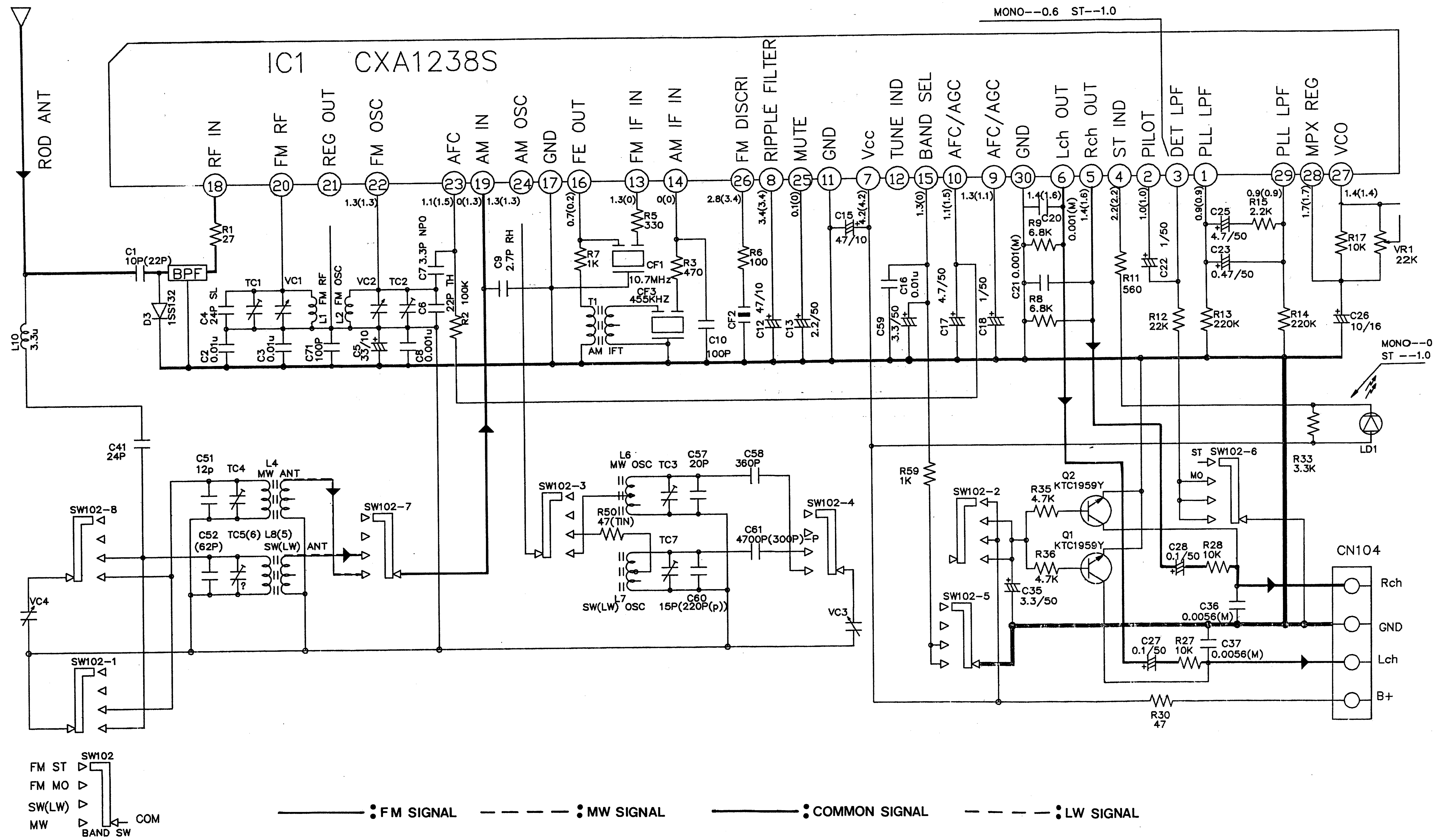

IC1
CXA1238S
VCC
FM ROD ANT
B.P.F
FRONTEND
FM/MW IF
M.P.X
L OUT
ROUT
CF1
FM IF
T1
CF2
CF3
455KHz
AM IF
LED1
VR1
MW ANT
FM ANT
FM OSC
MW OSC
JK203
MIC JACK
IC102
KIA7417AP
TAPE EQ
MIC L
MIC R
L IN
R IN
L OUT
ROUT
VCC
PB L
REC L
PB R
REC R
L ch
R/P HEAD
R ch
R/P HEAD
MAGNETIC
E-HEAD
SW101-1
SW101-6
SW101-2
T101
Q211
Q214
Q215
SW103-2
CN605
PN605
LED 9V
LED
G
G
G
5V
9V
SY
5V
R
GND
L
TO CD MAIN BOARD
Q102
U.B.B SW
VR202-1
50KA
Q302
VR202-2
50KA
L IN
R IN
IC101
KIA8207K
POWER AMP
VCC
L OUT
R OUT
PN105
CN105
SPEAKER
SPEAKER
JK202
HEAD PHONE
SW1-3
Q282
KTD2058
Q281
B834
Q280
KTC2236
JK201
SOCKET
T201
POWER TRANS
D205
F201
2.5A
SW105
V/S SW
PN101
CN101
PN102
CN102
+B
M
GND
SW106
REC P/B
SW1
FWD/REV
SW1
MAIN LEAF SW
SW101
TAPE
RADIO
CD
COM
FUNCTION SW
SW103
RIF SW

● CDP SECTION


PICK-UP BLOCK
D
C
B
A
E
F
E-F BALANCE
VR501
LD
Q501 LASER POWER CONTROL
PD
VR502 FOCUS BIAS
IC501 CD RF AMP
RFO
RFI
PD2
PD1
EFM
ASY
MIRR
DFCT
TE
FE
LDON
FOK
EO
EI
F BIAS
TRACKING GAIN
FOCUS GAIN
IC503 DSP
EFM
ASY
MUTG
SUBQ
SCOR
XRST
SENS
DATA
CLK
SQCK
XLT
GFS
XTA1
XTAO
PLCK
WFCK
RFCK
C2F2
C2F1
C1F2
C1F1
PDO
FSW
MDS
MON
MDP
LOCK
VCO1
VCOO
CNIN
C4M
DATA
BCK
LRCK
IC508 D/A CONVERTER
L-OUT
R-OUT
LRSEL
5V
IC601 L.P.F
L-OUT
TO AUDIO
R-OUT
AUDIO MUTE Q603,604
AUDIO MUTE DRIVE Q605,606
DE-EMP Q601,602
DE-EMP DRIVE Q607,608
TRACKING COIL
FOCUS COIL
SW510 DOOR
REPEAT 1/ALL /REMAIN
INTRO/RANDOM
PROGRAM
SW507
SW506
SW505
SW504
SW503
SW502
SW501
IC505 SYSTEM CONTROL
XTAL
EXTAL
S DOOR
FOK
LDON
BTL-MUTE
BTL MUTE DRIVE Q505
MUTE
SUBQ
SCOR
RESET
SENSE
DATA
SQCK
LATCH
GFS
RST
WP
CD
REC
P CON
BW
DE-EMP
38 — 54
CD +B
RESET IC510
REC
TO AUDIO
LCD1
PLL FILTER Q502,503
IC502 CD SYSTEM SERVO PROCESSOR
COUT
C864
LOCK
MDP
MON
FSW
MIRR
DFCT
TE
TZC
ATSC
FE
XRST
SENSE
DATA
CLK
XLT
WDCK
FOK
PD1
FEO
FE-
TAO
TA-
SL+
SLO
SL-
SPDLO
SPDL
STOP
VCOF
VR505 VCO
IC506 FOCUS TRACKING COIL DRIVE
F IN
T IN
MUTE
F-
F+
T-
T+
SL IN
SP IN
MUTE
SL-
SL+
SP+
SP-
M
M
LIMIT
IC507 SLED SPINDLE MOTOR DRIVE

SCHEMATIC DIAGRAM

● RF SECTION

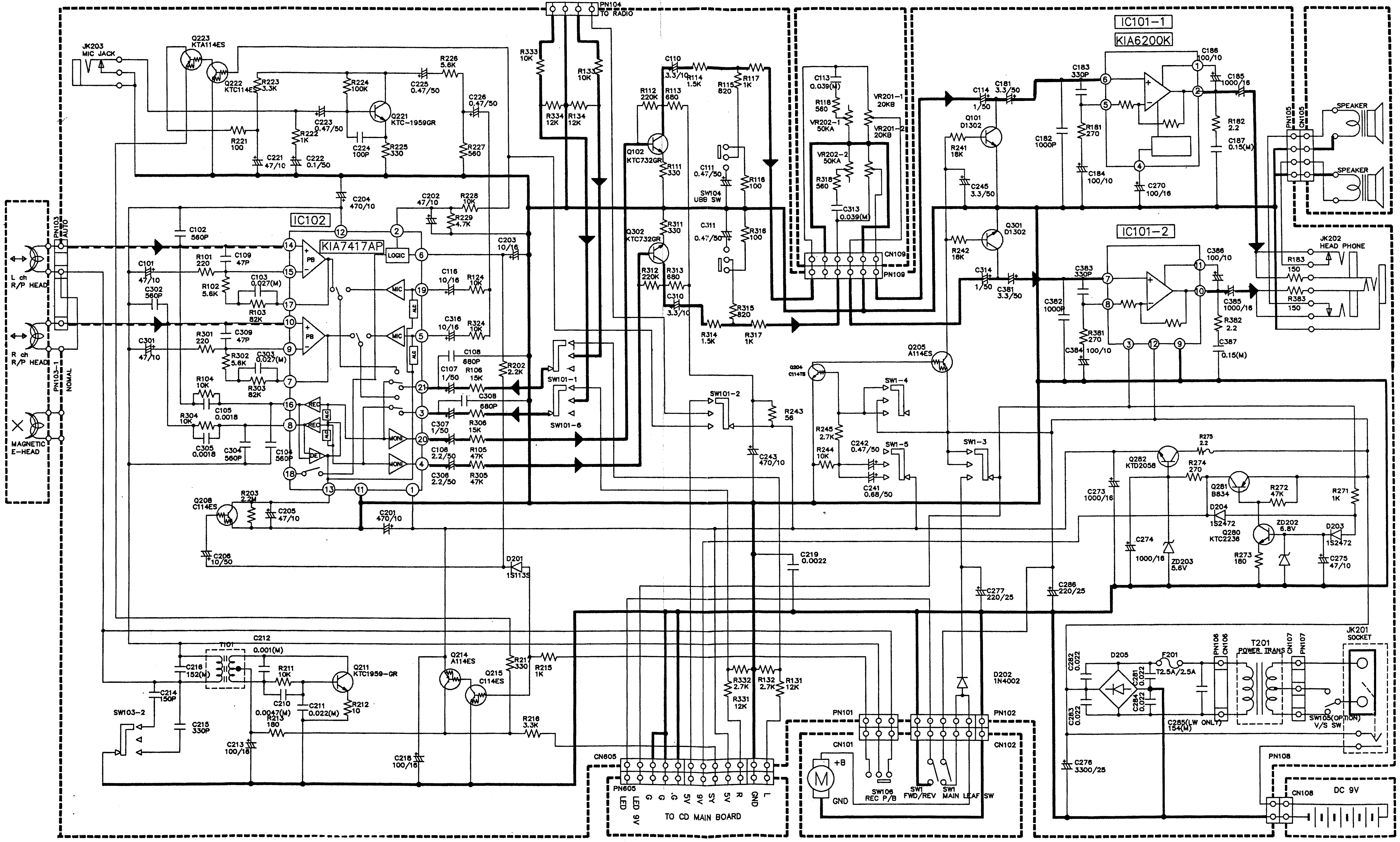


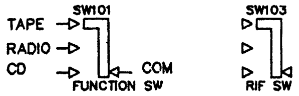
IC1 CXA1238S
ROD ANT
RF IN 18
FM RF 20
REG OUT 21
FM OSC 22
AFC 23
AM IN 19
AM OSC 24
GND 17
FE OUT 16
FM IF IN 13
AM IF IN 14
FM DISCRI 26
RIPPLE FILTER 8
MUTE 25
GND 11
Vcc 7
TUNE IND 12
BAND SEL 15
AFC/AGC 10
AFC/AGC 9
GND 30
Lch OUT 6
Rch OUT 5
ST IND 4
PILOT 2
DET LPF 3
PLL LPF 1
PLL LPF 29
MPX REG 28
VCO 27
MONO--0.6 ST--1.0
MONO--0 ST --1.0
1.3(1.3)
1.1(1.5)
0(1.3)
1.3(1.3)
0.7(0.2)
1.3(0)
0(0)
2.8(3.4)
3.4(3.4)
0.1(0)
4.2(4.2)
1.3(0)
1.1(1.5)
1.3(1.1)
1.4(1.6)
0.001(M)
1.4(1.6)
2.2(2.2)
1.0(1.0)
0.9(0.9)
0.9(0.9)
1.7(1.7)
1.4(1.4)
C1 10P(22P)
BPF
R1 27
D3 1SS132
L10 3.3u
C4 24P SL
C2 0.01u
TC1
VC1
L1 FM RF
L2 FM OSC
VC2
TC2
C3 0.01u
C71 100P
C5 33/10
C6
C7 3.3P NPO
C8 0.001u
22P TH
R2 100K
C9 2.7P RH
R7 1K
R5 330
CF1 10.7MHz
CF3 455KHZ
R3 470
T1
AM IFT
C10 100P
CF2
R6 100
C12 47/10
C13 2.2/50
C15 47/10
C16 0.01u
C59 3.3/50
C17 4.7/50
C18 1/50
C21 0.001(M)
C20
R9 6.8K
R8 6.8K
R11 560
C22 1/50
R12 22K
C25 4.7/50
C23 0.47/50
R15 2.2K
R13 220K
R14 220K
R17 10K
VR1 22K
C26 10/16
LD1
R33 3.3K
C41 24P
SW102-8
VC4
SW102-1
C51 12p
TC4
L4 MW ANT
C52 (62P)
TC5(6) L8(5) SW(LW) ANT
SW102-7
L6 MW OSC
TC3
C57 20P
C58 360P
SW102-3
R50 47(TIN)
TC7
C61 4700P(300P)
L7 SW(LW) OSC
C60 15P(220P(p))
SW102-4
VC3
R59 1K
SW102-2
SW102-5
R35 4.7K
Q2 KTC1959Y
Q1 KTC1959Y
R36 4.7K
C35 3.3/50
ST SW102-6
MO
C28 0.1/50
R28 10K
C36 0.0056(M)
C27 0.1/50
R27 10K
C37 0.0056(M)
R30 47
CN104
Rch
GND
Lch
B+
SW102
FM ST
FM MO
SW(LW)
MW
COM
BAND SW

———— : FM SIGNAL – – – – : MW SIGNAL ———— : COMMON SIGNAL – – – – : LW SIGNAL

*( ):"L"VERSION
*VOLTAGE ( )AM

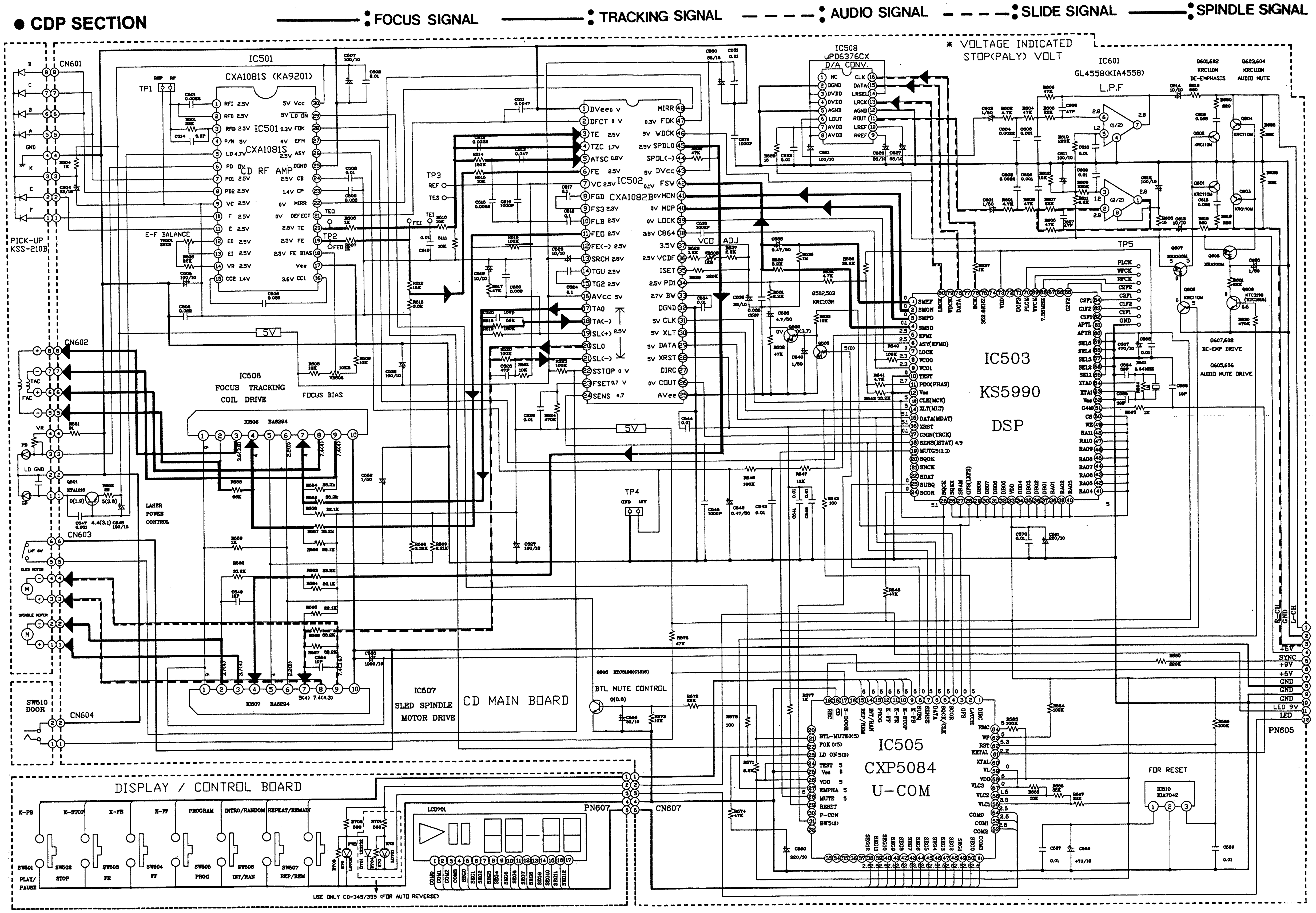
● AUDIO SECTION


PN104 TO RADIO
R L GND B+
JK203 MIC JACK
Q223 KTA114ES
Q222 KTC114ES
R223 3.3K
R224 100K
R226 5.6K
C225 0.47/50
C226 0.47/50
Q221 KTC-1959GR
C223 0.47/50
R222 1K
R221 100
C221 47/10
C222 0.1/50
C224 100P
R225 330
R227 560
C204 470/10
C202 47/10
R228 10K
R229 4.7K
IC102
KIA7417AP
LOGIC
PB
MIC
REC
ALC
DET
MONI
C102 560P
C109 47P
C101 47/10
C302 560P
R101 220
R102 5.6K
C103 0.027(M)
R103 82K
R301 220
C309 47P
C301 47/10
R302 5.6K
C303 0.027(M)
R303 82K
R104 10K
R304 10K
C105 0.0018
C305 0.0018
C304 560P
C104 560P
C116 10/16
R124 10K
C316 10/16
R324 10K
C108 680P
C107 1/50
R106 15K
C308 680P
C307 1/50
R306 15K
C106 2.2/50
R105 47K
C306 2.2/50
R305 47K
C203 10/16
R202 2.2K
PN103 AUTO
PN103-1 NOMAL
L ch R/P HEAD
R ch R/P HEAD
MAGNETIC E-HEAD
Q208 C114ES
R203 2.2M
C205 47/10
C206 10/50
C201 470/10
D201 1S113S
R333 10K
R133 10K
R334 12K
R134 12K
SW101-1
SW101-6
SW101-2
C110 3.3/10
R114 1.5K
R115 820
R117 1K
R112 220K
R113 680
Q102 KTC732GR
R111 330
C111 0.47/50
SW104 UBB SW
R116 100
C311 0.47/50
R316 100
R311 330
Q302 KTC732GR
R312 220K
R313 680
C310 3.3/10
R315 820
R314 1.5K
R317 1K
C113 0.039(M)
R118 560
VR202-1 50KA
VR201-1 20KB
VR201-2 20KB
VR202-2 50KA
R318 560
C313 0.039(M)
CN109
PN109
R243 56
Q204 C114ES
Q205 A114ES
SW1-4
SW1-5
SW1-3
R245 2.7K
R244 10K
C242 0.47/50
C241 0.68/50
C243 470/10
C219 0.0022
C277 220/25
C286 220/25
IC101-1
KIA6200K
C114 1/50
C181 3.3/50
Q101 D1302
R241 18K
C245 3.3/50
C183 330P
C182 1000P
R181 270
C184 100/10
C186 100/10
C185 1000/16
R182 2.2
C187 0.15(M)
C270 100/16
IC101-2
Q301 D1302
R242 18K
C314 1/50
C381 3.3/50
C383 330P
C382 1000P
R381 270
C384 100/10
C386 100/10
C385 1000/16
R382 2.2
C387 0.15(M)
PN105
CN105
SPEAKER
JK202 HEAD PHONE
R183 150
R383 150
Q282 KTD2058
R275 2.2
R274 270
Q281 B834
R272 47K
R271 1K
C273 1000/16
D204 1S2472
Q280 KTC2236
ZD202 6.8V
D203 1S2472
C274 1000/16
ZD203 5.6V
R273 180
C275 47/10
T101
C212 0.001(M)
C216 152(M)
R211 10K
Q211 KTC1959-GR
C214 150P
C215 330P
SW103-2
C210 0.0047(M)
C211 0.022(M)
R212 10
R213 180
C213 100/16
Q214 A114ES
Q215 C114ES
R217 330
R215 1K
R216 3.3K
C218 100/16
R332 2.7K
R132 2.7K
R131 12K
R331 12K
D202 1N4002
CN605
PN605
LED 9V G G G 5V 9V SY 5V R GND L
TO CD MAIN BOARD
PN101
CN101
PN102
CN102
+B
GND
SW106 REC P/B
SW1 FWD/REV
SW1 MAIN
LEAF SW
C282 0.022
C283 0.022
D205
F201 T2.5A/2.5A
C281 0.022
C284 0.022
C285(LW ONLY) 154(M)
C276 3300/25
PN106
CN106
T201 POWER TRANS
CN107
PN107
JK201 SOCKET
SW105(OPTION) V/S SW
PN108
CN108
DC 9V

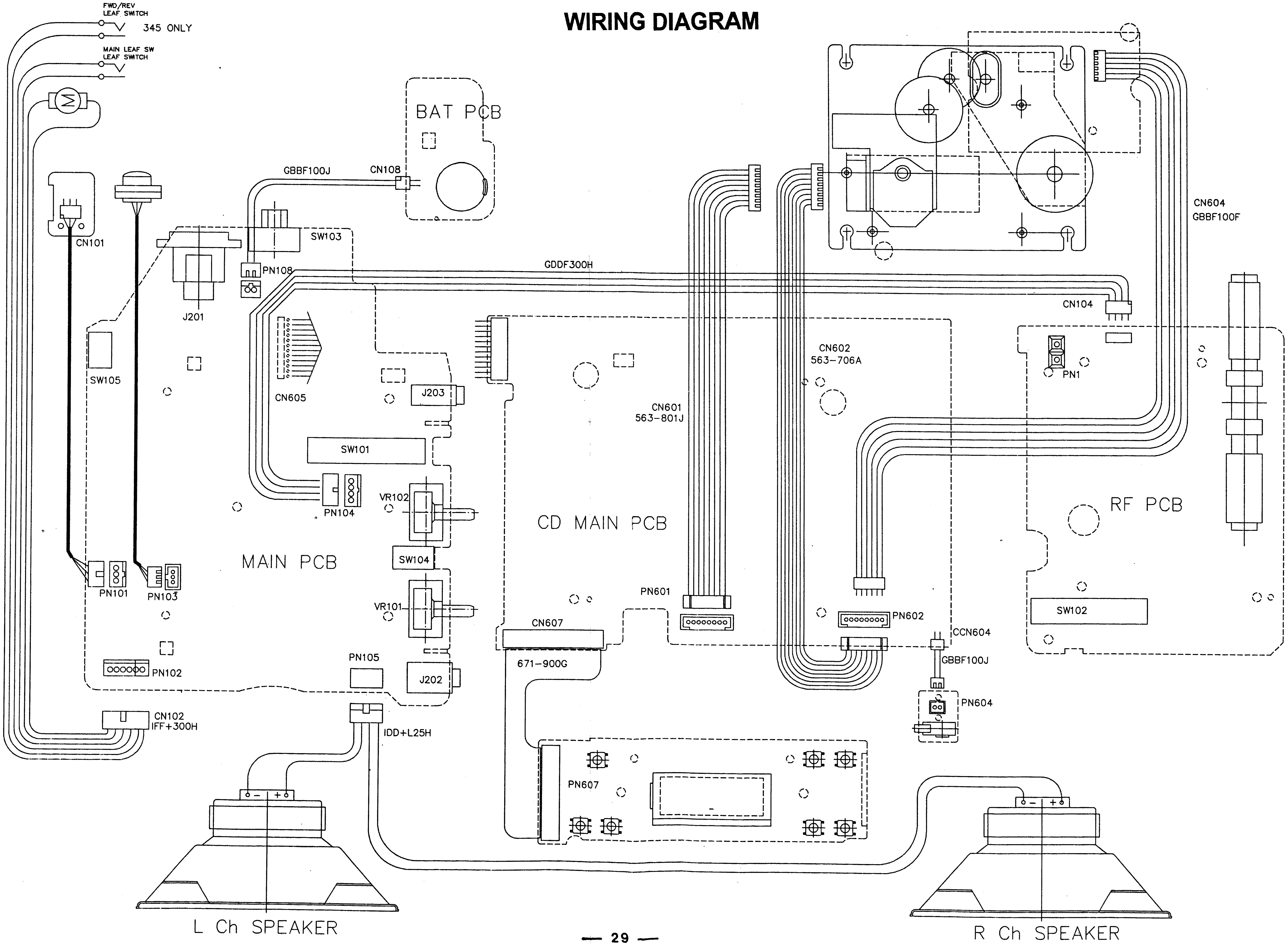

SW101
TAPE
RADIO
CD
COM
FUNCTION SW
SW103
RIF SW

– – – – –: TAPE SIGNAL ————: COMMON SIGNAL

● CDP SECTION

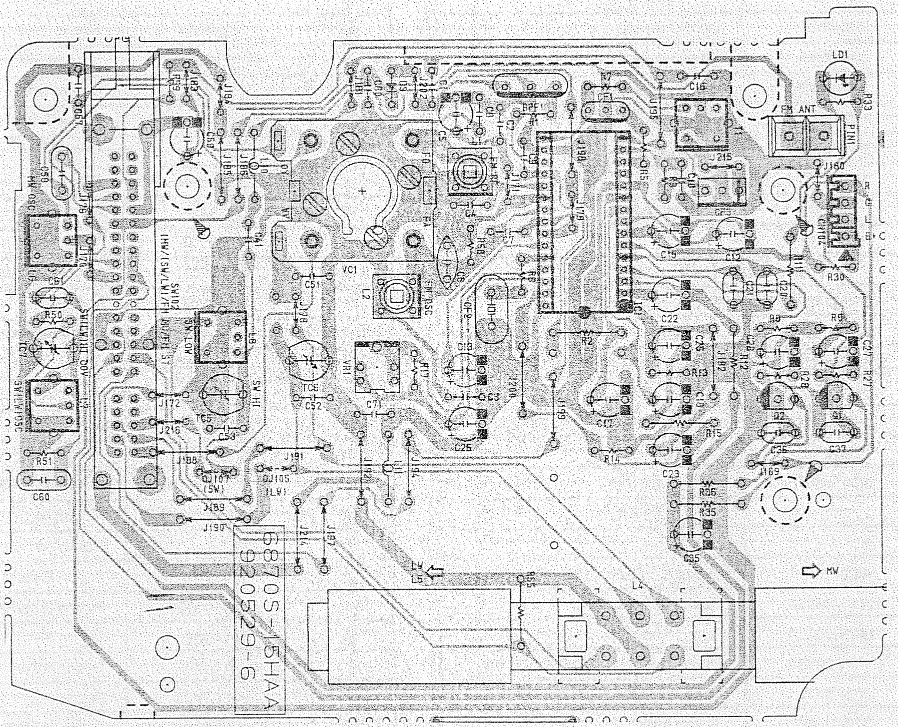

FOCUS SIGNAL
TRACKING SIGNAL
AUDIO SIGNAL
SLIDE SIGNAL
SPINDLE SIGNAL
※ VOLTAGE INDICATED
STOP(PALY) VOLT
CN601
PICK-UP
KSS-210B
IC501
CXA1081S (KA9201)
CXA1081S
CD RF AMP
TP1
TP2
TP3
TP4
TP5
E-F BALANCE
IC502
CXA1082B
VCO ADJ
IC508
uPD6376CX
D/A CONV.
IC601
GL4558(KIA4558)
L.P.F
Q601,602
KRC110M
DE-EMPHASIS
Q603,604
KRC110M
AUDIO MUTE
Q607,608
DE-EMP DRIVE
Q605,606
AUDIO MUTE DRIVE
IC503
KS5990
DSP
CN602
IC506
FOCUS TRACKING
COIL DRIVE
FOCUS BIAS
BA6294
LASER
POWER
CONTROL
CN603
SLED MOTOR
SPINDLE MOTOR
IC507
BA6294
SLED SPINDLE
MOTOR DRIVE
CD MAIN BOARD
BTL MUTE CONTROL
IC505
CXP5084
U-COM
FOR RESET
IC510
KIA7042
SW510
DOOR
CN604
R-CH
GND
L-CH
+5V
SYNC
+9V
+5V
GND
GND
GND
LED 9V
LED
PN605
DISPLAY / CONTROL BOARD
K-PB
K-STOP
K-FR
K-FF
PROGRAM
INTRO/RANDOM
REPEAT/REMAIN
SW501
PLAY/
PAUSE
SW502
STOP
SW503
FR
SW504
FF
SW505
PROG
SW506
INT/RAN
SW507
REP/REM
LCD701
PN607
CN607
USE ONLY CD-345/355 (FOR AUTO REVERSE)

WIRING DIAGRAM

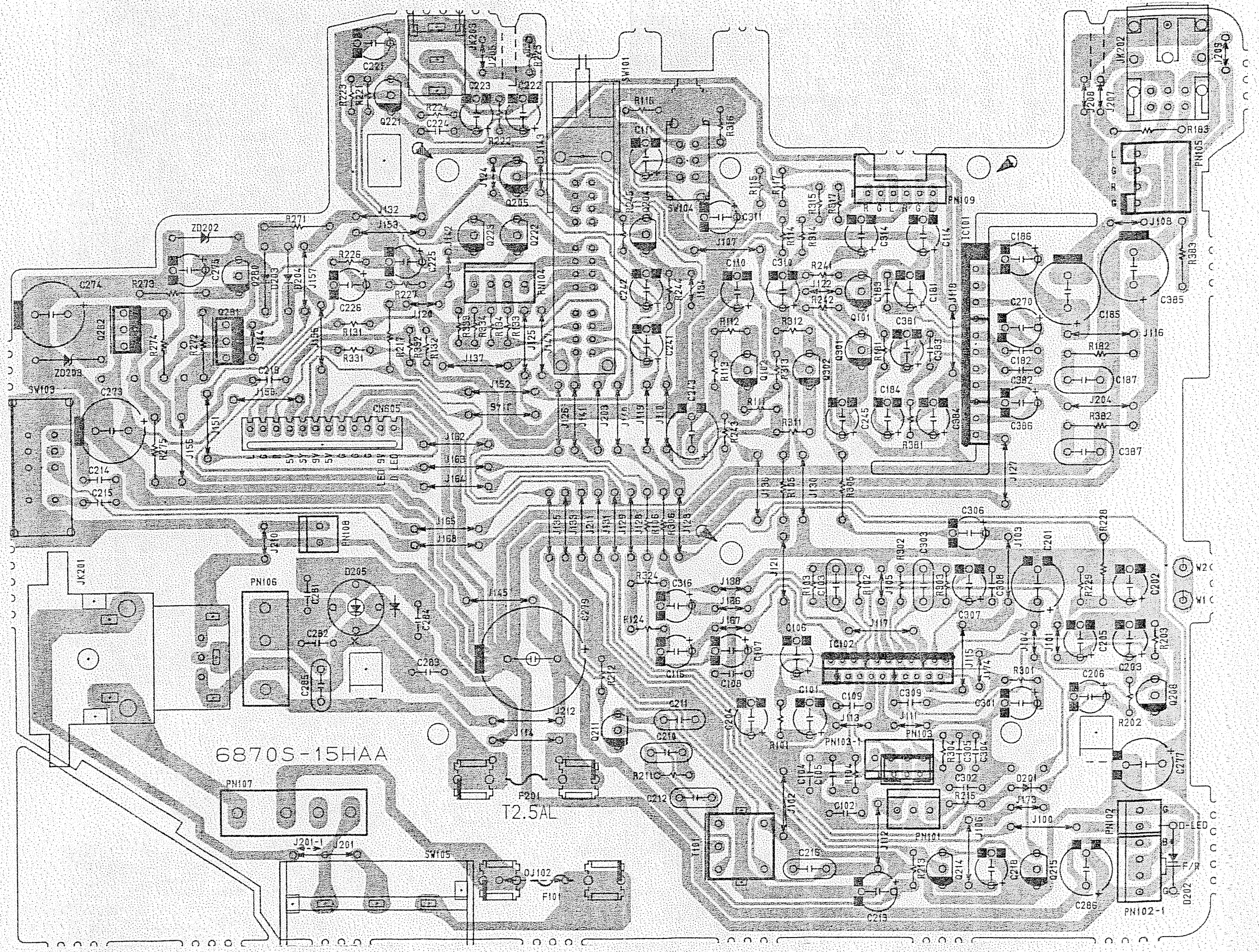

FWD/REV
LEAF SWITCH
345 ONLY
MAIN LEAF SW
LEAF SWITCH
M
BAT PCB
GBBF100J
CN108
CN101
SW103
PN108
J201
GDDF300H
CN604
GBBF100F
CN104
SW105
CN605
J203
CN602
563-706A
PN1
CN601
563-801J
SW101
PN104
VR102
CD MAIN PCB
RF PCB
MAIN PCB
SW104
PN101
PN103
PN601
VR101
CN607
PN602
CCN604
SW102
PN105
671-900G
GBBF100J
J202
PN102
PN604
CN102
IFF+300H
IDD+L25H
PN607
L Ch SPEAKER
R Ch SPEAKER

PCB LAYOUT

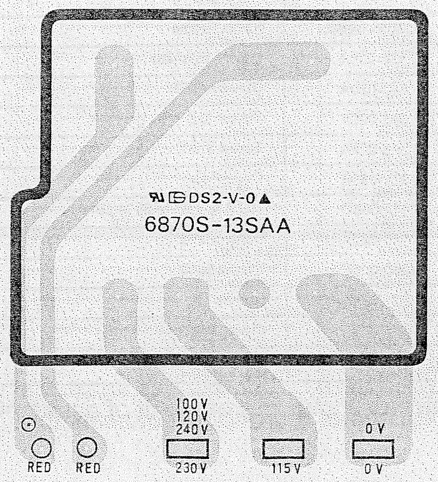
● RF P.C. BOARD


FM ANT
6870S-15HAA
920529-6
MW
LW

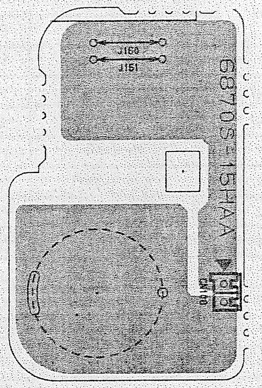
● MAIN P.C. BOARD


6870S-15HAA
T2.5AL

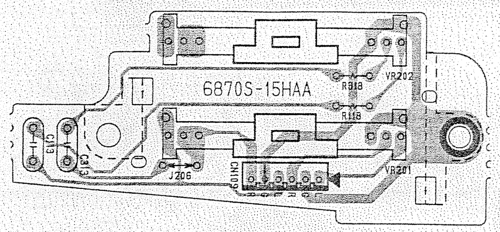
● POWER P.C. BOARD


DS2-V-0▲
6870S-13SAA
RED
RED
100V
120V
240V
230V
115V
0V
0V

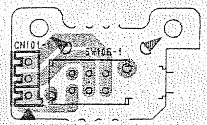
● BATTERY P.C. BOARD


J160
J161
6870S-15HAA

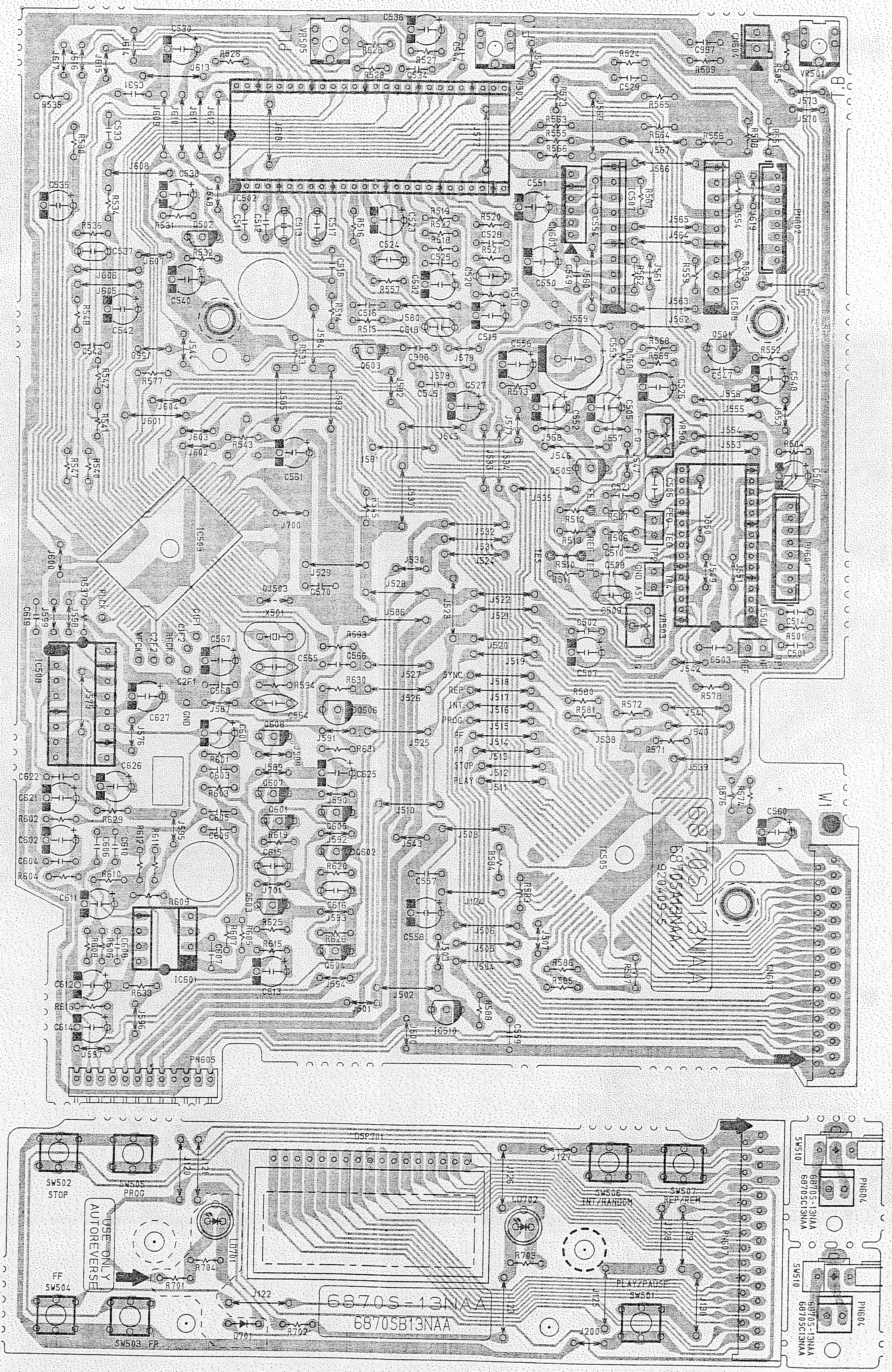
● VOLUME P.C. BOARD


6870S-15HAA
VR202
VR201

● DECK P.C. BOARD


CN101-1
SW105-1

CDP P.C. BOARD



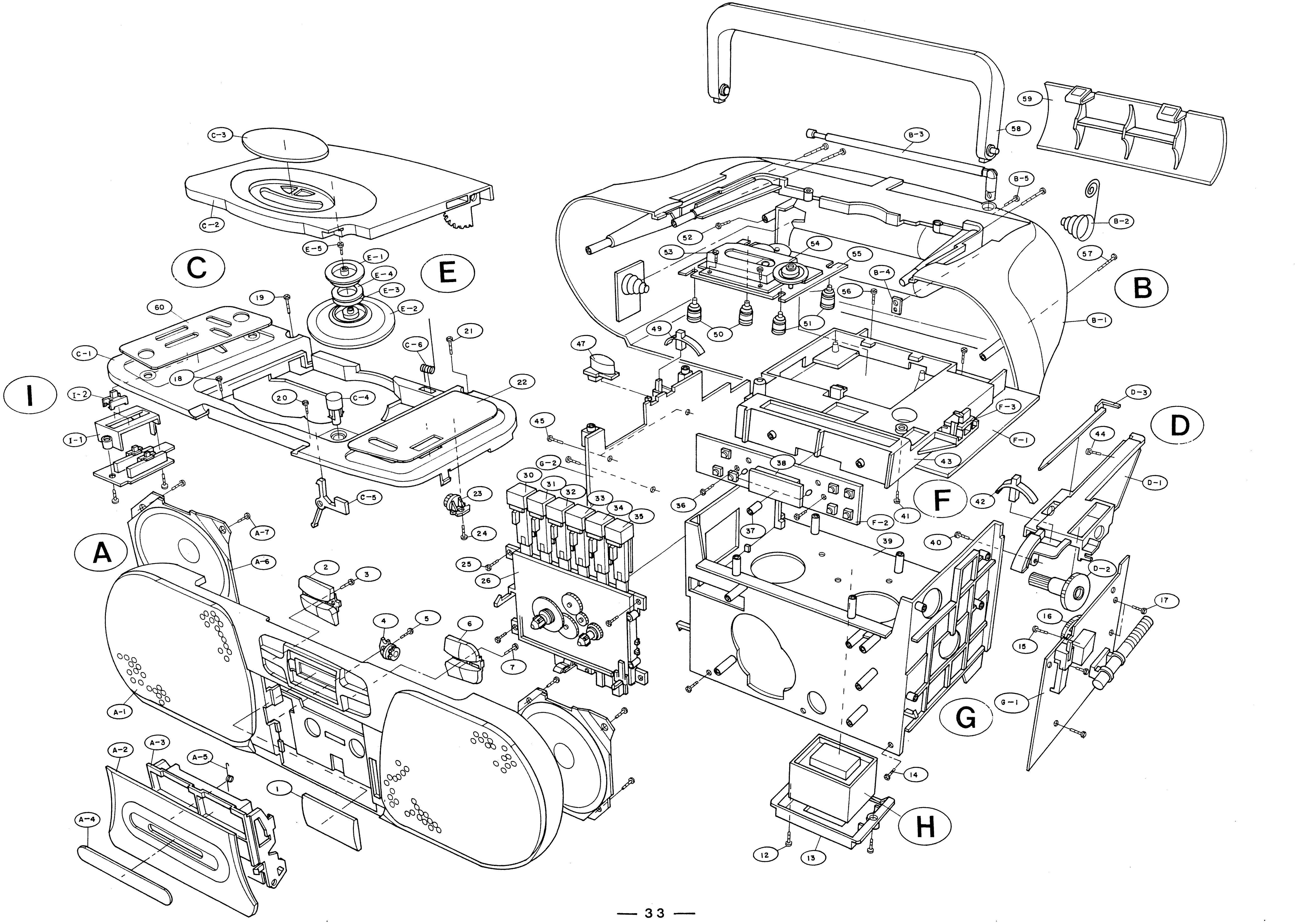
EXPLODED VIEW & PARTS LIST

CABINET SECTION

REF.NO.	Part No.	Description
A	215-345D	Front Case Ass'y
A-1	217-438C	Front Case Sub Ass'y
A-2	226-552A	Door Cassette
A-3	324-554A	Holder Door
A-4	236-454B	Window Cassette
A-5	442-864M	Spring Eject
A-6	541-861B	Speaker 10m/m, 3.2 Ω
A-7	353-025G	Screw 3x10
B	215-346A	Rear Case Ass'y
B-1	217-426A	Rear Case
B-2	442-924G	Spring Battery
B-3	532-800A	Rod Antenna
B-4	562-710A	Lug Antenna
B-5	IMPC0302622	Screw 3x10
C	215-348A	Top Case Ass'y
C-1	217-345A	Top Case
C-2	226-060A	Door CD
C-3	236-389A	Window CD
C-4	274-003B	Knob CD Eject
C-5	333-118A	Lever Eject
C-6	442-287J	Spring CD Door
D	3141S-0053A	Tuning Chassis Ass'y
D-1	3140S-0053A	Tuning Chassis
D-2	4940S-0063A	Tuning Knob
D-3	361-266A	Pointer
E	327-118A	Clamp Ass'y
E-1	324-310A	Clamp Holder
E-2	327-119A	Clamper
E-3	524-011A	Magnetic
E-4	221-240C	Cover
E-5	353-025F	Screw 3x8
F	6871S-13NAD	CD PCB Total Ass'y
F-1	6871SA13NAC	CD MAIN PCB Ass'y
F-2	6871SB13NAB	CD SW. PCB Ass'y
F-3	6871SC13NAA	CD Door PCB Ass'y
G	6871S-15HAA	Audio PCB Total Ass'y
G-1	6871SA15HAA	RF PCB Ass'y
G-2	6871SM15HAA	Main PCB Ass'y
H	640-815D	Power Trans Ass'y 240V, 50Hz
	640-815T	Power Trans Ass'y 230V, 50Hz
I	3174S-0345A	V/T Chassis Ass'y
I-1	3140S-0345A	V/T Chassis
I-2	4940S-0345A	Knob V/T
1	236-455C	Window LCD
2	4940S-0099A	Knob Cd Control(L)
3	353-028A	Screw 2x6
4	444-111B	Damper Ass'y
5	353-025K	Screw 3x12
6	4940S-0099B	Knob CD Control(R)
7	353-028A	Screw 2x6
8	-	Not Used
9	-	Not Used

REF.NO.	Part No.	Description
10		Not Used
11		Not Used
12	353-025K	Screw 3x12
13	4810S-0090A	Bracket P/T
14	353-025K	Screw 3x12
15	IMPC0261418	Screw 2.6x4
16	435-206A	Gear Pulley
17	353-025G	Screw 3x10
18	353-025I	Screw 3x28
19	353-025P	Screw 3x12
20	353-025P	Screw 3x12
21	353-025P	Screw 3x12
22	236-658B	Window Scale
23	444-111B	Damper Ass'y
24	353-025K	Screw 3x12
25	353-025K	Screw 3x12
26	410-541A	Deck Ass'y
27	-	Not Used
28	-	Not Used
29	-	Not Used
30	275-078A	Button Pause
31	275-078B	Button Stop/Eject
32	275-078C	Button FF
33	275-078D	Button REW
34	275-078E	Button Play
35	275-078F	Button REC
36	353-025K	Screw 3x12
37	384-919A	Guide LED
38	447-602X	Cushion LCD
39	3140S-0051A	Chassis Main
40	353-025G	Screw 3x10
41	353-025K	Screw 3x12
42	4940S-0066A	Knob Tuggle
43	3140S-0052A	Chassis CD
44	353-025G	Screw 3x10
45	353-025G	Screw 3x10
46	-	Not Used
47	4940S-0068A	Knob Booster
48	-	Not Used
49	4940S-0066A	Knob Tuggle
50	324-101A	Holder Bushing
51	447-070A	Cushion MD
52	353-025F	Screw 3x8
53	353-028A	Screw 2x6
54	221-099B	Cover MD
55	411-006C	MD Ass'y KSM-2101 BAM
56	353-025K	Screw 3x12
57	353-041F	Screw 3x40
58	261-075A	Handle
59	221-038A	Cover Battery
60	236-657A	Window Function

* NOTE : Ref. No. shows a group unit of assembly.


C-3
C-2
E-5
E-1
E-4
E-3
E-2
C
E
60
19
C-6
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C-1
18
20
C-4
22
I
I-2
I-1
C-5
23
24
A
A-7
A-6
2
3
4
5
6
7
A-1
A-2
A-3
A-5
A-4
1
59
58
B-3
B-5
B-2
52
53
54
55
B-4
56
57
B
B-1
47
49
50
51
45
G-2
30
31
32
33
34
35
25
26
36
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37
39
40
41
F-2
F
F-3
F-1
43
42
D-3
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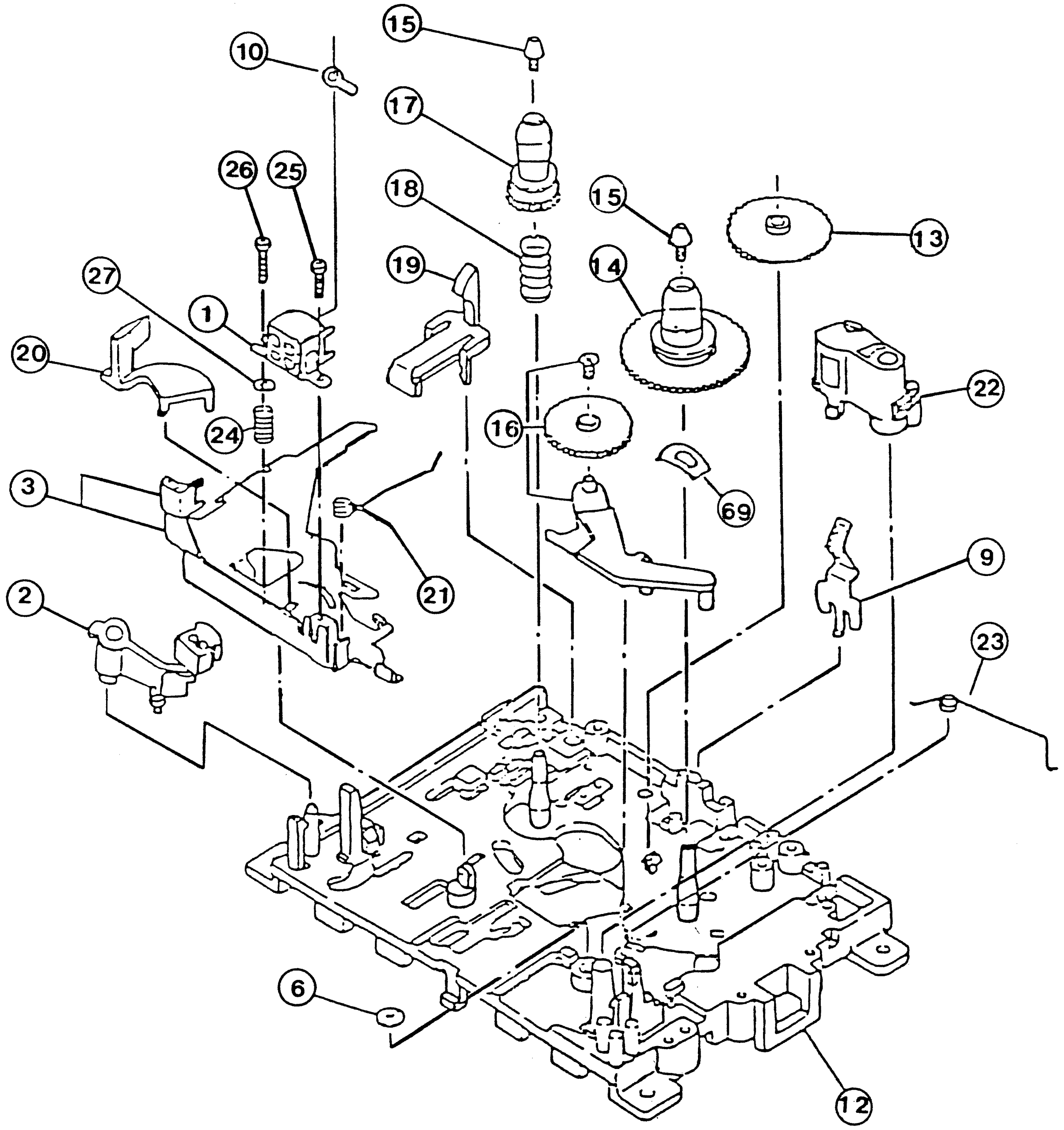
G-1
G
14
H
12
13

● DECK MECHANISM SECTION



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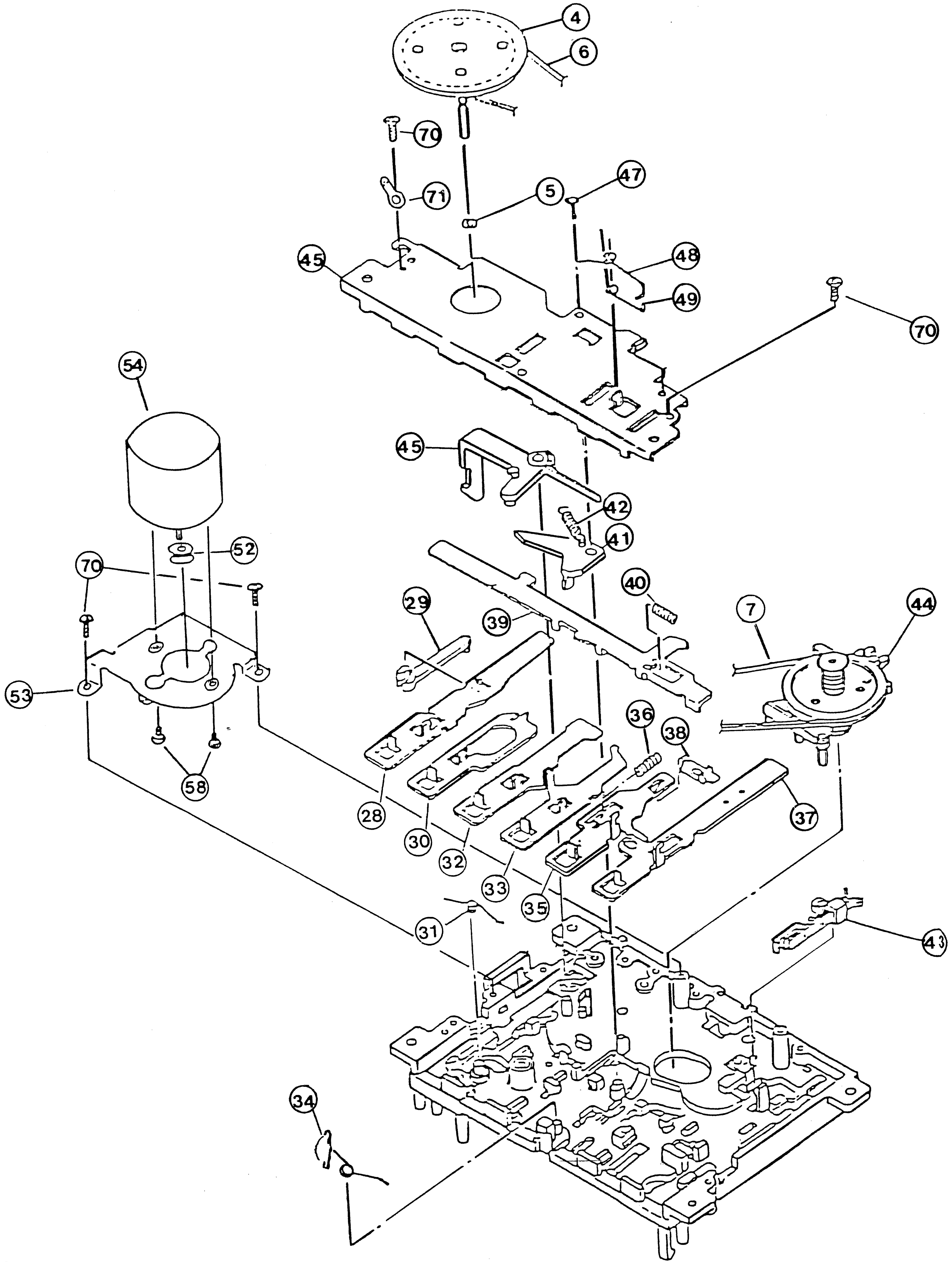

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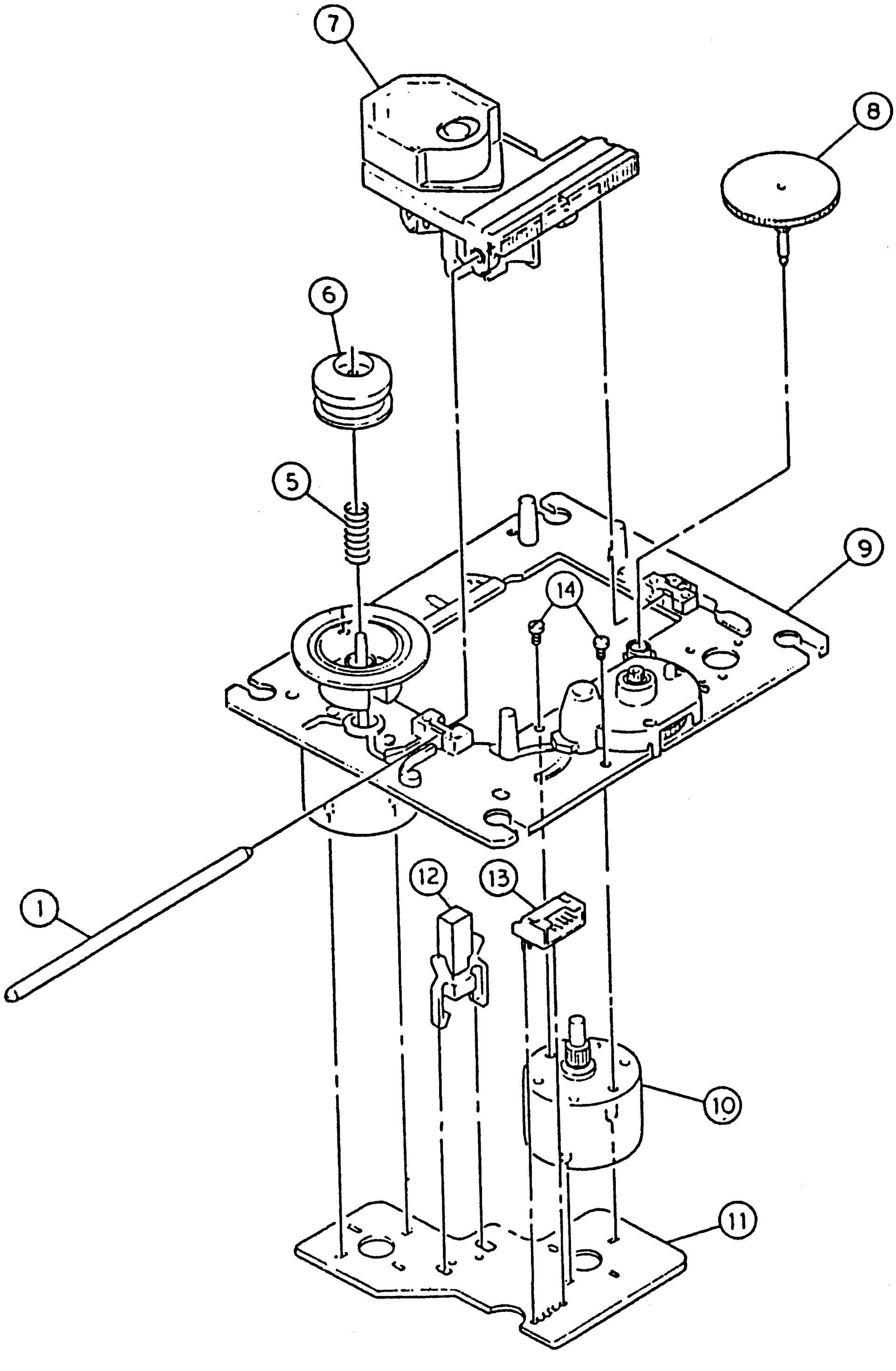
Ref. No.	Part No.	Description
—	419-360H	Deck YM27-407
1	99P-1005	R/P Head
2	99P-1009	Erase Head Ass'y
4	99P-1040	Flywheel Ass'y
6	99P-9000	Belt
7	99P-1099	Belt
13	99P-1024	F Gear

Ref. No.	Part No.	Description
14	99P-1018	T Reel Ass'y
16	99P-1016	Idler Gear
19	99P-1013	Inter Lock Arm
22	99P-1025	Pinch Ass'y
43	99P-1076	Main S/W
54	99P-9001	Motor

• Note : Excluded parts in the part list are not available as replacement parts.

● CDP MECHANISM SECTION



REF.NO.	PART. NO.	DESCRIPTION	REF.NO.	PART. NO.	DESCRIPTION
-	411-006C	CD Ass'y KSM-2101	9	88A-0026	Chassis Ass'y
1	88A-0021	Slide Shaft	10	88A-0027	Motor Ass'y
5	88A-0022	Arm Check Spring	11	88A-0028	Motor PCB
6	88A-0023	Center Rim	12	88A-0029	Leaf Switch
7	88A-0024	Pick-up	13	88A-0030	Connector
8	88A-0025	Gear	14	88A-0031	Screw 2x3

REPLACEMENT PARTS LIST

[REPLACEMENT PARTS LIST] PAGE : 1

MODEL : CD-340L RUN-DATE : 92.06.11

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
			EMA-100J	CONNECTOR ASSY		
			IDD+L25H	CONNECTOR ASSY	GS IL-G04 (21) 240/540	
			0WR0806N092	LEAD WIRE	1007 22 SIN 60 BN 7-7 NA	
			1MBC0302622	BINDING HEAD MACHINE SCREW +	D 3.0 L 10 MSWR3/FN	
			1MPC0261718	PAN HEAD MACHINE SCREW +	D 2.6 L 5.0 MSWR3/FZY	
			1TRL0302018	BRAIZER HEAD TA SCREW + 2 CUT	D 3.0 L 6.0 MSWR3/FZY	
			215-345D	CASE ASSY	FRNT (CD-340)	
			215-346A	CASE ASSY	REAR (CD-340/5)	
			215-348A	CASE ASSY	TOP (CD-340)	
			217-345A	CASE REAR		
			217-426A	CASE	REAR (CD-340/5)	
			217-438C	CASE	FRNT SUB AY(CD-340)	
			221-038A	COVER	BATT (CD-340/5)GRAY	
			221-099B	COVER	COVER MD	
			221-240C	COVER	COVER MAGNET T=1.5	
			226-060A	DOOR	CD (HANGUL)	
			226-552A	DOOR	CST (CD-340)	
			236-389A	WINDOW	CD (CD-340/5)	
			236-454B	WINDOW	CST (CD-345)	
			236-455C	WINDOW	LCD (CD-340)	
			236-657A	WINDOW	FUNCTION (CD-340/5)	
			236-658B	WINDOW	SCALE(FM,MW,LW)	
			255-425A	HEAT SINK	HEAT SINK (CFX-425A US1)	
			261-075A	HANDLE	CD-340/5(GRAY)	
			274-003B	KNOB	CD EJECT (CD-340/5)	
			275-078A	BUTTON	DECK(CD-340)PAUSE	
			275-078B	BUTTON	DECK(CD-340)STOP/EJ	
			275-078C	BUTTON	DECK(CD-340)FF	
			275-078D	BUTTON	DECK(CD-340)REW	
			275-078E	BUTTON	DECK(CD-340)PLAY	
			275-078F	BUTTON	DECK(CD-340)REC	
			3140S-0051A	CHASSIS	MAIN (CD-340/5)	
			3140S-0052A	CHASSIS	CD (CD-340/5)	
			3140S-0053A	CHASSIS	TUNING (CD-340/5)	
			3140S-0345A	CHASSIS	VOL/TONE(CD-340/5)	
			3141S-0053A	CHASSIS ASSY	TUNING (CD-345)	
			3141S-0345A	CHASSIS ASSY	VOL/TONE(CD-340/5)	
			324-101A	HOLDER	BUSHING CD	
			324-310A	HOLDER	CLAMPER HOLDER	
			324-554A	HOLDER	DOOR (CD-340/5)	
			327-118A	CLAMP	CLAMPER AY (RD-118)	
			327-119A	CLAMP	CLAMPER	
			333-118A	LEVER	EJECT LEVER	
			353-022G	SCREW	* TAPTITE 2X4 FZMY	
			353-025F	SCREW	* SPECIAL 3X8 FZMY	
			353-025F	SCREW	* SPECIAL 3X8 FZMY	
			353-025G	SCREW	SPECIAL 3X10 FZMY	
			353-025I	SCREW	* SPECIAL 3X28 FBK	
			353-025K	SCREW	* SPECIAL 3X12 FZMY	
			353-025K	SCREW	* SPECIAL 3X12 FZMY	

「REPLACEMENT PARTS LIST」

P A G E : 2

MODEL : CD-340L

RUN-DATE : 92.06.11

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
			353-025K	SCREW	* SPECIAL 3X12 FZMY	
			353-025P	SCREW	* SPECIAL 3X12 FBK	
			353-028A	SCREW	TAP TITE 2X6 FZMY	
			353-028A	SCREW	TAP TITE 2X6 FZMY	
			353-028G	SCREW	* TAP TITE 2.6X6 FZMY	
			353-041F	SCREW	* TAPPING 3X40(25) FZMY	
			361-266A	POINTER	CD-340/5	
			384-919A	GUIDE	LED (FK-909)	
			3874S-2010X	MANUAL, OPERATION	CD-340L KG11	
			410-541A	DECK SUB ASSY	CFDX-20(DECK SUB ASSY)	
			411-006C	MECHANISM ASSY	KSM-2101 BAN MASAN SONY	
			435-206A	GEAR	PULLEY GEAR (CFDX-20/50)	
			442-208A	SPRING	BATT SPRING (CFDX-20/50)	
			442-287J	SPRING	DOOR CD(CD-620/625)	
			442-864M	SPRING	EJECT(0.7) SUS-304 (03)	
			442-924G	SPRING	BATTERY (+,- H=18SHS)	
			444-111B	DAMPER	DAMPER AY (M=10.4/T=13)	
			444-111B	DAMPER	DAMPER AY (M=10.4/T=13)	
			447-070A	CUSHION	M/D PCD-N8	
			447-602X	CUSHION	LCD (CD-340/5) CUSHION	
			4810S-0090A	BRACKET	P/T (CD-340/5)	
			4810S-0092A	BRACKET	BRACKET LEAF CFDX-20	
			4940S-0063A	KNOB	TUNING (CD-340/5)	
			4940S-0066A	KNOB	TUGGLE (CD-340/5)	
			4940S-0068A	KNOB	BOOSTER (CD-340/5)	
			4940S-0099A	KNOB	CD CONTROL (L) CD-340	
			4940S-0099B	KNOB	CD CONTROL (R) CD-340	
			4940S-0345A	KNOB	VOL/TONE(CD-340/5)	
			524-011A	MAGNET	CLAMPER PCD-N8	
			532-800A	ANTENNA ROD	VR 52187 DA,VANADIUM	
			541-861B	SPEAKER	100MM 3.2OHM (CD-340) DAIICHI	
			562-710A	LUG	LUG,ANT,TW-710	
			640-815D	TRANS POWER ASSY	240V 50HZ TK/ZP BS	
			640-815T	TRANS POWER ASSY	230V 50HZ TK/ZP SEMKO	
			641-815D	TRANS POWER ASSY	240V 50HZ TK/ZP BS	
			641-815T	TRANS POWER	230V 50HZ TK/ZP SEMKO	
			681-024D	CORD POWER	BASECBS6500 LTBS2F+KS15C L1.8	
			6871S-13NAD	PWB ASSY	CD-340 (CD MAIN+S/W+DOOR)	
			6871S-15HAA	PWB ASSY	PCB ASSY (CD-340)	
			6871SA13NAC	PWB ASSY	CD-345/355 (CD MAIN)	
			6871SA15HAA	PWB ASSY	RF ASSY CD-340L	
			6871SB13NAB	PWB ASSY	CD-340 (CD SWITCH)	
			6871SC13NAA	PWB ASSY	CD-340/345 (CD DOOR)	
			6871SP15HAA	PWB ASSY	POWER SOCKET ASSY CD-340	
			88A-0021	CD MECHA PART KSM-210BBM	SLIDE SHAFT 4-917-567-01	
			88A-0022	CD MECHA PART KSM-210BBM	ARM CHECK SPR 2-625-191-01	
			88A-0023	CD MECHA PART KSM-210BBM	CENTER RIM C 2-625-186-01	
			88A-0024	CD MECHA PART KSM-210BBM	PICK-UP 8-848-137-21	
			88A-0025	CD MECHA PART KSM-210BBM	GEAR 2-625-188-02	
			88A-0026	CD MECHA PART KSM-210BBM	TT CHASSIS AY MB X-2625-1332	
			88A-0027	CD MECHA PART KSM-210BBM	MOTOR AY X-2625-132-1	
			88A-0028	CD MECHA PART KSM-210BBM	MOTOR PCB 1-636-789-14	
			88A-0029	CD MECHA PART KSM-210BBM	LEAF SWWITCH 1-572-085-12	

「REPLACEMENT PARTS LIST」

MODEL : CD-340L

RUN-DATE : 92.06.11

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
			88A-0030	CD MECHA PART KSM-210BBM	CONNECOT 6P1-564-722-11	
			88A-0031	CD MECHA PART KSM-210BBM	TP2X3 7-621-255-15	
			99P-1005	DECK AND OTHER PARTS	R/P B HEAD MS15RBA2N1K	
			99P-1009	DECK AND OTHER PARTS	E HEAD ASSY	
			99P-1013	DECK AND OTHER PARTS	INTER LOCK ARM PBE16643	
			99P-1016	DECK AND OTHER PARTS	IDLER GEAR PBE 16641	
			99P-1018	DECK AND OTHER PARTS	T.REEL ASSY PBE03163	
			99P-1024	DECK AND OTHER PARTS	F.GEAR PBE16640	
			99P-1025	DECK AND OTHER PARTS	PINCH ARM ASSY PBE03501	
			99P-1040	DECK AND OTHER PARTS	FLYWHEEL ASSY PBE03625	
			99P-1076	DECK AND OTHER PARTS	MAIN SWITCH MSW1342NCV	
			99P-1099	DECK AND OTHER PARTS	BELT PBE5239	
			99P-9000	DECK PARTS	BELT, PBE5286	
			99P-9001	DECK PARTS	MOTER,SHE9LK	
		BPF1	616-011G	FILTER CERAMIC	FILTER,B P BPMB8(88-108MHZ)(S)	
		CD-340	6871SD15HAA	PWB ASSY	DECK SUB ASSY CD-340	
		CD-340	6871SM15HAA	PWB ASSY	MAIN ASSY CD-340	
		CF1	616-020V	FILTER CERAMIC	SFT10.7MS23-A,MURATA	
		CF2	616-020W	FILTER CERAMIC	CDA10.7MG1-A,MURATA	
		CF3	616-003D	FILTER CERAMIC	SFU455B AM MURATA (S)	
		CN101-	GAC+002H	WIRE	C,AY GSIL-G03/IL-J03 (I)240(S)	
		CN102	563-923E	CONNECTOR ASSY	GS IL-G04 2791-30-3C 300 (S)	
		CN108	GBBF100J	*CONNECTOR ASSY GS	C,AY GSIL-G02/IL-J02(21)180(S)	
		CN109	563-657A	CONNECTOR ASSY	JST 6P-SAN PHR-6 1007#26	
		CN110	563-704C	CONNECTOR ASSY	GS IL-G04 (21)150/210 CFD-20	
		CN601	563-801M	CONNECTOR ASSY	PHR-08/IL-S08 1571 #28 140	
		CN602	563-706A	CONNECTOR ASSY	JST PHR-08RD/IL-S08RD 180	
		CN603	563-657A	CONNECTOR ASSY	JST 6P-SAN PHR-6 1007#26	
		CN604	GBBF100F	*CONNECTOR ASSY GS	C,AY GSIL-G02/IL-J02(21)100(S)	
		CN605	561-804L	CONNECTOR	HOUSING,B TO B 52084-1210	
		CN607	561-6874	CONNECTOR	WAFER,FPC ELCO 8370-297 29PAN	
		C1	0CX2200K408	CAPACITOR TUBULA(T.C)	22P 50V J SL TP26	
		C10	0CN1010K518	CAPACITOR TUBULA(HIGH DIELE)	100P 50V K B TA26	
		C101	0CE4766D618	CAPACITOR,ELECTROLYTIC	47M SMS 10V M FL TP(5)	
		C102	0CN5610K518	CAPACITOR TUBULA(HIGH DIELE)	560P 50V K B TA26	
		C103	0CQ2731N409	CAPACITOR POLYESTER(MYLAR)	0.027U 100V J POLY TP	
		C104	0CN5610K518	CAPACITOR TUBULA(HIGH DIELE)	560P 50V K B TA26	
		C105	0CN1820F668	CAPACITOR TUBULA(HIGH DIELE)	1800P 16V M X TA26	
		C106	0CE2256K618	CAPACITOR,ELECTROLYTIC	2.2M SMS 50V M FL TP(5)	
		C107	0CE1056K618	CAPACITOR,ELECTROLYTIC	1.0M SMS 50V M FL TP(5)	
		C108	0CN6810K518	CAPACITOR TUBULA(HIGH DIELE)	680P 50V K B TA26	
		C109	0CX4700K408	CAPACITOR TUBULA(T.C)	47P 50V J SL TA26	
		C110	0CE3356K618	CAPACITOR,ELECTROLYTIC	3.3M SMS 50V M FL TP(5)	
		C111	0CE4746K618	CAPACITOR,ELECTROLYTIC	0.47M SMS 50V M FL TP(5)	
		C113	0CQ3931N409	CAPACITOR POLYESTER(MYLAR)	0.039U 100V J POLY TP	
		C114	0CE1056K618	CAPACITOR,ELECTROLYTIC	1.0M SMS 50V M FL TP(5)	
		C116	0CE1066F618	CAPACITOR,ELECTROLYTIC	10M SMS 16V M FM5 TP(5)	
		C12	0CE4766D618	CAPACITOR,ELECTROLYTIC	47M SMS 10V M FL TP(5)	
		C13	0CE2256K618	CAPACITOR,ELECTROLYTIC	2.2M SMS 50V M FL TP(5)	
		C15	0CE4766D618	CAPACITOR,ELECTROLYTIC	47M SMS 10V M FL TP(5)	

⌊REPLACEMENT PARTS LIST⌋

MODEL : CD-340L

RUN-DATE : 92.06.11

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		C16	0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	
		C17	0CE4756K618	CAPACITOR,ELECTROLYTIC	4.7M SMS 50V M FL TP(5)	
		C18	0CE1056K618	CAPACITOR,ELECTROLYTIC	1.0M SMS 50V M FL TP(5)	
		C181	0CE3356K618	CAPACITOR,ELECTROLYTIC	3.3M SMS 50V M FL TP(5)	
		C182	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C183	0CN3310K518	CAPACITOR TUBULA(HIGH DIELE)	330P 50V K B TA26	
		C184	0CE1076F618	CAPACITOR,ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C185	0CE1086F630	CAPACITOR,ELECTROLYTIC	1000M SMS 16V M FM5	
		C186	0CE1076F618	CAPACITOR,ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C187	0CQ1542N409	CAPACITOR POLYESTER(MYLAR)	0.15U S 100V J POLY TP	
		C2	0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	
		C20	0CQ1021N509	CAPACITOR POLYESTER(MYLAR)	0.001U 100V K POLY TP	
		C201	0CE4776D618	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C202	0CE4766D618	CAPACITOR,ELECTROLYTIC	47M SMS 10V M FL TP(5)	
		C203	0CE1066F618	CAPACITOR,ELECTROLYTIC	10M SMS 16V M FM5 TP(5)	
		C204	0CE4776D618	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C205	0CE4766D618	CAPACITOR,ELECTROLYTIC	47M SMS 10V M FL TP(5)	
		C206	0CE1066K618	CAPACITOR,ELECTROLYTIC	10M SMS 50V M FM5 TP(5)	
		C21	0CQ1021N509	CAPACITOR POLYESTER(MYLAR)	0.001U 100V K POLY TP	
		C210	0CQ4721N509	CAPACITOR POLYESTER(MYLAR)	0.0047U 100V K POLY TP	
		C211	0CQ2231N409	CAPACITOR POLYESTER(MYLAR)	0.022U 100V J POLY TP	
		C212	0CQ1021N509	CAPACITOR POLYESTER(MYLAR)	0.001U 100V K POLY TP	
		C213	0CE1076F618	CAPACITOR,ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C214	0CN1510K518	CAPACITOR TUBULA(HIGH DIELE)	150P 50V K B TA26	
		C215	0CN3310K518	CAPACITOR TUBULA(HIGH DIELE)	330P 50V K B TA26	
		C216	0CQ1521N509	CAPACITOR POLYESTER(MYLAR)	0.0015U 100V K POLY TP	
		C218	0CE1076F618	CAPACITOR,ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C219	0CN2220F668	CAPACITOR TUBULA(HIGH DIELE)	2200P 16V M X TA26	
		C22	0CE1056K618	CAPACITOR,ELECTROLYTIC	1.0M SMS 50V M FL TP(5)	
		C221	0CE4766D618	CAPACITOR,ELECTROLYTIC	47M SMS 10V M FL TP(5)	
		C222	0CE1046K618	CAPACITOR,ELECTROLYTIC	0.1M SMS 50V M FL TP(5)	
		C223	0CE4746K618	CAPACITOR,ELECTROLYTIC	0.47M SMS 50V M FL TP(5)	
		C224	0CN1010K518	CAPACITOR TUBULA(HIGH DIELE)	100P 50V K B TA26	
		C225	0CE4746K618	CAPACITOR,ELECTROLYTIC	0.47M SMS 50V M FL TP(5)	
		C226	0CE4746K618	CAPACITOR,ELECTROLYTIC	0.47M SMS 50V M FL TP(5)	
		C23	0CE4746K618	CAPACITOR,ELECTROLYTIC	0.47M SMS 50V M FL TP(5)	
		C241	0CE6846K618	CAPACITOR,ELECTROLYTIC	0.68M SMS 50V M FL TP(5)	
		C242	0CE4746K618	CAPACITOR,ELECTROLYTIC	0.47M SMS 50V M FL TP(5)	
		C243	0CE4776D618	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C245	0CE3356K618	CAPACITOR,ELECTROLYTIC	3.3M SMS 50V M FL TP(5)	
		C25	0CE4756K618	CAPACITOR,ELECTROLYTIC	4.7M SMS 50V M FL TP(5)	
		C26	0CE1066F618	CAPACITOR,ELECTROLYTIC	10M SMS 16V M FM5 TP(5)	
		C27	0CE1046K618	CAPACITOR,ELECTROLYTIC	0.1M SMS 50V M FL TP(5)	
		C270	0CE1076F618	CAPACITOR,ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C273	0CE1086F630	CAPACITOR,ELECTROLYTIC	1000M SMS 16V M FM5	
		C274	0CE1086F630	CAPACITOR,ELECTROLYTIC	1000M SMS 16V M FM5	
		C275	0CE4766D618	CAPACITOR,ELECTROLYTIC	47M SMS 10V M FL TP(5)	
		C277	0CE2276H618	CAPACITOR,ELECTROLYTIC	220M SMS 25V FM5 TP(5)	
		C279	0CE3386H650	CAPACITOR,ELECTROLYTIC	3300M SMS 25V M FM7.5	
		C28	0CE1046K618	CAPACITOR,ELECTROLYTIC	0.1M SMS 50V M FL TP(5)	

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		C281	0CN2230H948	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 25V Z F TA26	
		C282	0CN2230H948	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 25V Z F TA26	
		C283	0CN2230H948	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 25V Z F TA26	
		C284	0CN2230H948	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 25V Z F TA26	
		C285	0CQ1542N409	CAPACITOR POLYESTER(MYLAR)	0.15U S 100V J POLY TP	
		C286	0CE2276H618	CAPACITOR,ELECTROLYTIC	220M SMS 25V FM5 TP(5)	
		C3	0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	
		C301	0CE4766D618	CAPACITOR,ELECTROLYTIC	47M SMS 10V M FL TP(5)	
		C302	0CN5610K518	CAPACITOR TUBULA(HIGH DIELE)	560P 50V K B TA26	
		C303	0CQ2731N409	CAPACITOR POLYESTER(MYLAR)	0.027U 100V J POLY TP	
		C304	0CN5610K518	CAPACITOR TUBULA(HIGH DIELE)	560P 50V K B TA26	
		C305	0CN1820F668	CAPACITOR TUBULA(HIGH DIELE)	1800P 16V M X TA26	
		C306	0CE2256K618	CAPACITOR,ELECTROLYTIC	2.2M SMS 50V M FL TP(5)	
		C307	0CE1056K618	CAPACITOR,ELECTROLYTIC	1.0M SMS 50V M FL TP(5)	
		C308	0CN6810K518	CAPACITOR TUBULA(HIGH DIELE)	680P 50V K B TA26	
		C309	0CX4700K408	CAPACITOR TUBULA(T.C)	47P 50V J SL TA26	
		C310	0CE3356K618	CAPACITOR,ELECTROLYTIC	3.3M SMS 50V M FL TP(5)	
		C311	0CE4746K618	CAPACITOR,ELECTROLYTIC	0.47M SMS 50V M FL TP(5)	
		C313	0CQ3931N409	CAPACITOR POLYESTER(MYLAR)	0.039U 100V J POLY TP	
		C314	0CE1056K618	CAPACITOR,ELECTROLYTIC	1.0M SMS 50V M FL TP(5)	
		C316	0CE1066F618	CAPACITOR,ELECTROLYTIC	10M SMS 16V M FM5 TP(5)	
		C35	0CE3356K618	CAPACITOR,ELECTROLYTIC	3.3M SMS 50V M FL TP(5)	
		C36	0CQ5621N509	CAPACITOR POLYESTER(MYLAR)	0.0056U 100V K POLY TP	
		C37	0CQ5621N509	CAPACITOR POLYESTER(MYLAR)	0.0056U 100V K POLY TP	
		C381	0CE3356K618	CAPACITOR,ELECTROLYTIC	3.3M SMS 50V M FL TP(5)	
		C382	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C383	0CN3310K518	CAPACITOR TUBULA(HIGH DIELE)	330P 50V K B TA26	
		C384	0CE1076F618	CAPACITOR,ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C385	0CE1086F630	CAPACITOR,ELECTROLYTIC	1000M SMS 16V M FM5	
		C386	0CE1076F618	CAPACITOR,ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C387	0CQ1542N409	CAPACITOR POLYESTER(MYLAR)	0.15U S 100V J POLY TP	
		C4	0CX2400K408	CAPACITOR TUBULA(T.C)	24P 50V J SL TA26	
		C5	0CE3366D618	CAPACITOR,ELECTROLYTIC	33M SMS 10V M FL TP(5)	
		C501	0CN2220F668	CAPACITOR TUBULA(HIGH DIELE)	2200P 16V M X TA26	
		C502	0CN2220F668	CAPACITOR TUBULA(HIGH DIELE)	2200P 16V M X TA26	
		C503	0CN2230F948	CAPACITOR TUBULA(HIGH DIELE)	0.022M 16V Z F TA26	
		C504	0CE3366F618	CAPACITOR,ELECTROLYTIC	33M SMS 16V M FL TP(5)	
		C505	0CE1076D618	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C506	0CQ3331N409	CAPACITOR POLYESTER(MYLAR)	0.033U 100V J POLY TP	
		C507	0CE1076D618	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C508	0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	
		C509	0CQ3331N409	CAPACITOR POLYESTER(MYLAR)	0.033U 100V J POLY TP	
		C51	0CX1000K418	CAPACITOR TUBULA(T.C)	10P 50V J NPO TA26	
		C510	0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	
		C511	0CN4720F668	CAPACITOR TUBULA(HIGH DIELE)	4700P 16V M X TA26	
		C512	0CN2220F668	CAPACITOR TUBULA(HIGH DIELE)	2200P 16V M X TA26	
		C513	0CQ4731N409	CAPACITOR POLYESTER(MYLAR)	0.047U 100V J POLY TP	
		C514	0CX3R30K518	CAPACITOR TUBULA(T.C)	3.3P 50V K NPO TA26	
		C515	0CN6820F668	CAPACITOR TUBULA(HIGH DIELE)	6800P 16V M X TA26	
		C516	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		C517	0CQ1041N409	CAPACITOR POLYESTER(MYLAR)	0.1U 100V J POLY TP	
		C518	0CQ1041N409	CAPACITOR POLYESTER(MYLAR)	0.1U 100V J POLY TP	
		C519	0CE1066K618	CAPACITOR,ELECTROLYTIC	10M SMS 50V M FM5 TP(5)	
		C52	0CX6200K408	CAPACITOR TUBULA(T.C)	62P 50V J SL TA26	
		C520	0CQ6831N409	CAPACITOR POLYESTER(MYLAR)	0.068U 100V J POLY TP	
		C523	0CE1066K618	CAPACITOR,ELECTROLYTIC	10M SMS 50V M FM5 TP(5)	
		C524	0CQ1041N409	CAPACITOR POLYESTER(MYLAR)	0.1U 100V J POLY TP	
		C525	0CN1510K518	CAPACITOR TUBULA(HIGH DIELE)	150P 50V K B TA26	
		C526	0CE1076D618	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C527	0CE1076D618	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C528	0CX4700K408	CAPACITOR TUBULA(T.C)	47P 50V J SL TA26	
		C529	0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	
		C530	0CE3366F618	CAPACITOR,ELECTROLYTIC	33M SMS 16V M FL TP(5)	
		C531	0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	
		C533	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C534	0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	
		C535	0CE4746K618	CAPACITOR,ELECTROLYTIC	0.47M SMS 50V M FL TP(5)	
		C536	0CE3366F618	CAPACITOR,ELECTROLYTIC	33M SMS 16V M FL TP(5)	
		C537	0CQ3331N409	CAPACITOR POLYESTER(MYLAR)	0.033U 100V J POLY TP	
		C538	0CE4756K618	CAPACITOR,ELECTROLYTIC	4.7M SMS 50V M FL TP(5)	
		C540	0CE1056K618	CAPACITOR,ELECTROLYTIC	1.0M SMS 50V M FL TP(5)	
		C541	0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	
		C542	0CE4746K618	CAPACITOR,ELECTROLYTIC	0.47M SMS 50V M FL TP(5)	
		C543	0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	
		C546	0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	
		C547	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C548	0CE1076D618	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C549	0CX1000K408	CAPACITOR TUBULA(T.C)	10P 50V J SL TA26	
		C552	0CE1056K618	CAPACITOR,ELECTROLYTIC	1.0M SMS 50V M FL TP(5)	
		C553	0CE1086F630	CAPACITOR,ELECTROLYTIC	1000M SMS 16V M FM5	
		C554	0CX1000K408	CAPACITOR TUBULA(T.C)	10P 50V J SL TA26	
		C556	0CE3366F618	CAPACITOR,ELECTROLYTIC	33M SMS 16V M FL TP(5)	
		C557	0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	
		C558	0CE4776D618	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C559	0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	
		C560	0CE2276D618	CAPACITOR,ELECTROLYTIC	220M SMS 10V M FM5 TP(5)	
		C561	0CE2276D618	CAPACITOR,ELECTROLYTIC	220M SMS 10V M FM5 TP(5)	
		C564	0CC3900K415	CAPACITOR CERAMIC(TEMP COMP)	39P 50V J NPO TP	
		C565	0CC3900K415	CAPACITOR CERAMIC(TEMP COMP)	39P 50V J NPO TP	
		C566	0CX1000K408	CAPACITOR TUBULA(T.C)	10P 50V J SL TA26	
		C567	0CE4776D618	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C568	0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	
		C57	0CX2000K418	CAPACITOR TUBULA(T.C)	20P 50V J NPO TA26	
		C570	0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	
		C58	0CQ3611N449	CAPACITOR POLYESTER(MYLAR)	360P 100V J PYLN TP	
		C59	0CE3356K618	CAPACITOR,ELECTROLYTIC	3.3M SMS 50V M FL TP(5)	
		C6	0CC2200K465	CAPACITOR CERAMIC(TEMP COMP)	22P 50V J N470 TS	
		C60	0CY2210K499	CAPACITOR,POLYESTYROL	220PF 50V J PSR-HT TP	
		C601	0CE1056K618	CAPACITOR,ELECTROLYTIC	1.0M SMS 50V M FL TP(5)	
		C602	0CE1056K618	CAPACITOR,ELECTROLYTIC	1.0M SMS 50V M FL TP(5)	

MODEL : CD-340L RUN-DATE : 92.06.11

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		C603	0CN2220F668	CAPACITOR TUBULA(HIGH DIELE)	2200P 16V M X TA26	
		C604	0CN2220F668	CAPACITOR TUBULA(HIGH DIELE)	2200P 16V M X TA26	
		C605	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C606	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C607	0CX4700K408	CAPACITOR TUBULA(T.C)	47P 50V J SL TA26	
		C608	0CX4700K408	CAPACITOR TUBULA(T.C)	47P 50V J SL TA26	
		C609	0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	
		C61	0CQ3011N449	CAPACITOR POLYESTER(MYLAR)	300P 100V J PYLN TP	
		C610	0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	
		C611	0CE1076D618	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		ZD203	0DZ560009BA	DIODE ZENER	UZ5.6BM,0.5W,UNIZON,TP	
		C612	0CE1076D618	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C613	0CE1066K618	CAPACITOR,ELECTROLYTIC	10M SMS 50V M FM5 TP(5)	
		C614	0CE1066K618	CAPACITOR,ELECTROLYTIC	10M SMS 50V M FM5 TP(5)	
		C615	0CQ6831N409	CAPACITOR POLYESTER(MYLAR)	0.068U 100V J POLY TP	
		C616	0CQ6831N409	CAPACITOR POLYESTER(MYLAR)	0.068U 100V J POLY TP	
		C619	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C621	0CE1076D618	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C622	0CN1030F678	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26	
		C625	0CE1056K618	CAPACITOR,ELECTROLYTIC	1.0M SMS 50V M FL TP(5)	
		C626	0CE3366F618	CAPACITOR,ELECTROLYTIC	33M SMS 16V M FL TP(5)	
		C627	0CE3366F618	CAPACITOR,ELECTROLYTIC	33M SMS 16V M FL TP(5)	
		C7	0CX3R30K518	CAPACITOR TUBULA(T.C)	3.3P 50V K NP0 TA26	
		C71	0CN1010K518	CAPACITOR TUBULA(HIGH DIELE)	100P 50V K B TA26	
		C8	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C9	0CX2R70K548	CAPACITOR TUBULA(T.C)	2.7P 50V K N220 TA26	
		D201	0DD132009AA	DIODE	1SS132 DETECT,SW TP	
		D202	0DD400209BA	DIODE	ROIN4002T1A,RECTRON,TP	
		D203	0DD247209AA	DIODE	1S2472 DETECT,SW TP	
		D204	0DD247209AA	DIODE	1S2472 DETECT,SW TP	
		D205	0DD203000AA	DIODE	PBM203,BRIDGE,SILITEK	
		D3	0DD132009AA	DIODE	1SS132 DETECT,SW TP	
		F201	0FT2501B513	FUSE TIME LAG	2.5A 250V 5.2X20 PT/G SMK	
		F201	586-001C	FUSE HOLDER	PIN-T 5X20 KS (S)	
		IC1	0IS0123800A	IC, SONY	CXA1238S RF(1CHIP),SONY	
		IC101	0IKE620000A	IC, KEC	KIA6200K (KIA8207K)	
		IC102	0IKE741700A	IC,KEC	KIA7417AP DUAL PRE AMP,KEC	
		IC501	0IS0108100A	IC, SONY	CXA1081S RF AMP(CD) SONY (S)	
		IC502	0IS0108200A	IC, SONY	CXA1082BS SERVO SP(CD)SONY	
		IC503	0ISS599000A	IC, SAMSUNG SEMICONDUCTOR	KS5990 DSP(CDP),S/S	
		IC505	0IS0508400B	IC,SONY	CXP5084H-559Q MICOM CD,SONY	
		IC506	668-801F	INTEGRATED CIRCUIT	BA6294 DRIVE MOTOR ROHM	
		IC507	668-801F	INTEGRATED CIRCUIT	BA6294 DRIVE MOTOR ROHM	
		IC508	0INE637600A	IC, NEC	UPD6376CX DAC FOR CD NEC	
		IC510	0IKE703900B	IC,KEC	KIA7039P 3.9V RESET,TP,KEC	
		IC601	0IGS455800A	IC, GOLDSTAR ELECTRON	GL4558 OP AMP	
		JK201	577-008F	SOCKET	AC-IN HSC1466-01-0101(S)	
		JK202	571-112B	JACK 3.5	SHQ9085-01-142/HSJ9014-01-142	
		JK203	571-002A	JACK 03.5 (HSJ0801-01-010)		
		LCD701	659-151D	DISPLAY	HDL-7395 HANDOK CD-340	

MODEL : CD-340L

RUN-DATE : 92.06.11

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		LD1	0DL340009AH	DIODE LED	SLR-34VR 70F 165,RD,ROHM	
		LD702	0DL340009AE	DIODE,LED	SLR-34URC 83F 215(RD) ROHM-K	
		L1	635-020A	COIL RF FM	RF(OSC) FM 2-1/4T (S)	
		L101	0LA0331K018	INDUCTOR AXIAL LEAD	3.3UH K 2.3X3.4 L5 TP	
		L11	0LA0331K018	INDUCTOR AXIAL LEAD	3.3UH K 2.3X3.4 L5 TP	
		L2	635-020B	COIL RF FM	RF(OSC)FM 1-3/4T (S)	
		L201	0LA0332K018	INDUCTOR AXIAL LEAD	33M K 2.3X3.4 L5 TP	
		L202	0LA0332K018	INDUCTOR AXIAL LEAD	33M K 2.3X3.4 L5 TP	
		L301	0LA0331K018	INDUCTOR AXIAL LEAD	3.3UH K 2.3X3.4 L5 TP	
		L4	632-211V	COIL ANTENNA	ANT BAR MW/LW 100MM(L82)	
		L6	634-037N	COIL OSCILLATOR	OSC MW 7 (140UH) (S)	
		L7	634-050B	COIL OSCILLATOR	R12-M198X LW OSC MITSUMI	
		PN101	561-715C	CONNECTOR	WAFER, G/S GO;-G-03P-S3T2-E(S)	
		PN102-	561-715D	CONNECTOR	WAFER, G/S GIL-G-04P-S3T2-E(S)	
		PN103-	561-715D	CONNECTOR	WAFER, G/S GIL-G-04P-S3T2-E(S)	
		PN104	561-715D	CONNECTOR	WAFER, G/S GIL-G-04P-S3T2-E(S)	
		PN105	561-715D	CONNECTOR	WAFER, G/S GIL-G-04P-S3T2-E(S)	
		PN106	561-650C	CONNECTOR	WAFER HANLIM FWP1145-03R D=1.5	
		PN107	561-650D	CONNECTOR	WAFER HANLIM FWP1145-04R D=1.5	
		PN108	561-715B	CONNECTOR	WAFER, G/S GIL-G-02P-S3T2-E(S)	
		PN109	561-712F	CONNECTOR	*WAFER,G/S GIL-S-06P-S2L2-EF	
		PN601	561-711H	CONNECTOR	*WAFER,G/S GIL-S-08P-S2T2-EF	
		PN602	561-685H	CONNECTOR	WAFER,KOREA MOLEX 53014-0810	
		PN604	561-715B	CONNECTOR	WAFER, G/S GIL-G-02P-S3T2-E(S)	
		PN605	561-805L	CONNECTOR	WAFER,B TO B 53095-1210	
		PN607	561-6874	CONNECTOR	WAFER,FPC ELCO 8370-297 29PAN	
		Q1	0TR320209AA	TRANSISTOR	KTC3202-TP-Y (KTC1959)KEC	
		Q101	0TR130209AA	TRANSISTOR	KTD1302 MUTING TP,KEC	
		Q102	0TR319809AD	TRANSISTOR	KTC3198L-GR TP,KEC(KTC732TM)	
		Q2	0TR320209AA	TRANSISTOR	KTC3202-TP-Y (KTC1959)KEC	
		Q204	0TR114009AE	TRANSISTOR	DTC114TS-TP S/W ROHM	
		Q205	0TR114009AA	TRANSISTOR	DTA114ES ROHM	
		Q208	0TR114009AD	TRANSISTOR	DTC114ES ROHM-K	
		Q211	0TR320209AB	TRANSISTOR	KTC3202-TP-GR (KTC1959)KEC	
		Q214	0TR114009AA	TRANSISTOR	DTA114ES ROHM	
		Q215	0TR114009AD	TRANSISTOR	DTC114ES ROHM-K	
		Q221	0TR320209AB	TRANSISTOR	KTC3202-TP-GR (KTC1959)KEC	
		Q222	0TR114009AD	TRANSISTOR	DTC114ES ROHM-K	
		Q223	0TR114009AA	TRANSISTOR	DTA114ES ROHM	
		Q280	0TR320509AA	TRANSISTOR	KTC3205-TP-O (KTC2236A)KEC	
		Q281	0TR988000AB	TRANSISTOR	KTB988-Y (KTB834)KEC	
		Q282	0TR201200AB	TRANSISTOR	KTD2058-Y PWR KEC	
		Q301	0TR130209AA	TRANSISTOR	KTD1302 MUTING TP,KEC	
		Q302	0TR319809AD	TRANSISTOR	KTC3198L-GR TP,KEC(KTC732TM)	
		Q501	0TR126609AB	TRANSISTOR	KTA1266-GR TP,KEC(KTA1015GR)	
		Q502	0TR103009AE	TRANSISTOR	KRC103M TP,KEC(KRC1203)	
		Q503	0TR103009AE	TRANSISTOR	KRC103M TP,KEC(KRC1203)	
		Q505	0TR319809AB	TRANSISTOR	KTC3198-TP-GR (KTC1815) KEC	
		Q601	0TR110009AE	TRANSISTOR	KRC110M TP,KEC(KRC1210)	
		Q602	0TR110009AE	TRANSISTOR	KRC110M TP,KEC(KRC1210)	

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		Q603	0TR110009AE	TRANSISTOR	KRC110M TP,KEC(KRC1210)	
		Q604	0TR110009AE	TRANSISTOR	KRC110M TP,KEC(KRC1210)	
		Q605	0TR103009AF	TRANSISTOR	KRA103M TP,KEC(KRA2203)	
		Q606	0TR319809AB	TRANSISTOR	KTC3198-TP-GR (KTC1815) KEC	
		Q607	0TR103009AF	TRANSISTOR	KRA103M TP,KEC(KRA2203)	
		Q608	0TR110009AE	TRANSISTOR	KRC110M TP,KEC(KRC1210)	
		R1	0RD0272F608	RESISTOR,FIXED CARBON FILM	27 1/6W 5 TA26	
		R101	0RD1500F608	RESISTOR,FIXED CARBON FILM	150 1/6W 5 TA26	
		R102	0RD5601F608	RESISTOR,FIXED CARBON FILM	5.6K 1/6W 5 TA26	
		R103	0RD1203F608	RESISTOR,FIXED CARBON FILM	120K 1/6W 5 TA26	
		R104	0RD1202F608	RESISTOR,FIXED CARBON FILM	12K 1/6W 5 TA26	
		R105	0RD4702G608	RESISTOR,FIXED CARBON FILM	47K 1/4W 5 TA26	
		R106	0RD1502G608	RESISTOR,FIXED CARBON FILM	15K 1/4W 5 TA26	
		R11	0RD5600G608	RESISTOR,FIXED CARBON FILM	560 1/4W 5 TA26	
		R111	0RD3300F608	RESISTOR,FIXED CARBON FILM	330 1/6W 5 TA26	
		R112	0RD2203F608	RESISTOR,FIXED CARBON FILM	220K 1/6W 5 TA26	
		R113	0RD6800F608	RESISTOR,FIXED CARBON FILM	680 1/6W 5 TA26	
		R114	0RD1501F608	RESISTOR,FIXED CARBON FILM	1.5K 1/6W 5 TA26	
		R115	0RD8200F608	RESISTOR,FIXED CARBON FILM	820 1/6W 5 TA26	
		R116	0RD1000F608	RESISTOR,FIXED CARBON FILM	100 1/6W 5 TA26	
		R117	0RD1001F608	RESISTOR,FIXED CARBON FILM	1.0K 1/6W 5 TA26	
		R118	0RD5600F608	RESISTOR,FIXED CARBON FILM	560 1/6W 5 TA26	
		R12	0RD2202G608	RESISTOR,FIXED CARBON FILM	22K 1/4W 5 TA26	
		R124	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K 1/6W 5 TA26	
		R13	0RD2203F608	RESISTOR,FIXED CARBON FILM	220K 1/6W 5 TA26	
		R131	0RD1202F608	RESISTOR,FIXED CARBON FILM	12K 1/6W 5 TA26	
		R132	0RD2701F608	RESISTOR,FIXED CARBON FILM	2.7K 1/6W 5 TA26	
		R133	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K 1/6W 5 TA26	
		R134	0RD1202F608	RESISTOR,FIXED CARBON FILM	12K 1/6W 5 TA26	
		R14	0RD2203F608	RESISTOR,FIXED CARBON FILM	220K 1/6W 5 TA26	
		R15	0RD2201G608	RESISTOR,FIXED CARBON FILM	2.2K 1/4W 5 TA26	
		R17	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K 1/6W 5 TA26	
		R181	0RD2700F608	RESISTOR,FIXED CARBON FILM	270 1/6W 5 TA26	
		R182	0RD0221G608	RESISTOR,FIXED CARBON FILM	2.2 1/4W 5 TA26	
		R183	0RD1500G608	RESISTOR,FIXED CARBON FILM	150 1/4W 5 TA26	
		R2	0RD1003G608	RESISTOR,FIXED CARBON FILM	100K 1/4W 5 TA26	
		R202	0RD2201F608	RESISTOR,FIXED CARBON FILM	2.2K 1/6W 5 TA26	
		R203	0RD2204F608	RESISTOR,FIXED CARBON FILM	2.2M 1/6W 5 TA26	
		R211	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K 1/6W 5 TA26	
		R212	0RD0102F608	RESISTOR,FIXED CARBON FILM	10 1/6W 5 TA26	
		R213	0RD1800F608	RESISTOR,FIXED CARBON FILM	180 1/6W 5 TA26	
		R215	0RD1001F608	RESISTOR,FIXED CARBON FILM	1.0K 1/6W 5 TA26	
		R217	0RD3300G608	RESISTOR,FIXED CARBON FILM	330 1/4W 5 TA26	
		R221	0RD1000F608	RESISTOR,FIXED CARBON FILM	100 1/6W 5 TA26	
		R222	0RD1001F608	RESISTOR,FIXED CARBON FILM	1.0K 1/6W 5 TA26	
		R223	0RD3301F608	RESISTOR,FIXED CARBON FILM	3.3K 1/6W 5 TA26	
		R224	0RD1003F608	RESISTOR,FIXED CARBON FILM	100K 1/6W 5 TA26	
		R225	0RD3300F608	RESISTOR,FIXED CARBON FILM	330 1/6W 5 TA26	
		R226	0RD5601F608	RESISTOR,FIXED CARBON FILM	5.6K 1/6W 5 TA26	
		R227	0RD5600F608	RESISTOR,FIXED CARBON FILM	560 1/6W 5 TA26	

MODEL : CD-340L

RUN-DATE : 92.06.11

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		R228	0RD1002G608	RESISTOR,FIXED CARBON FILM	10K 1/4W 5 TA26	
		R229	0RD4701F608	RESISTOR,FIXED CARBON FILM	4.7K 1/6W 5 TA26	
		R241	0RD1802F608	RESISTOR,FIXED CARBON FILM	18K 1/6W 5 TA26	
		R242	0RD1802F608	RESISTOR,FIXED CARBON FILM	18K 1/6W 5 TA26	
		R243	0RD0562F608	RESISTOR,FIXED CARBON FILM	56 1/6W 5 TA26	
		R244	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K 1/6W 5 TA26	
		R245	0RD2701F608	RESISTOR,FIXED CARBON FILM	2.7K 1/6W 5 TA26	
		R27	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K 1/6W 5 TA26	
		R271	0RD1001G608	RESISTOR,FIXED CARBON FILM	1.0K 1/4W 5 TA26	
		R272	0RD4702G608	RESISTOR,FIXED CARBON FILM	47K 1/4W 5 TA26	
		R273	0RD1800G608	RESISTOR,FIXED CARBON FILM	180 1/4W 5 TA26	
		R274	0RD2700G608	RESISTOR,FIXED CARBON FILM	270 1/4W 5 TA26	
		R275	614-016C	RESISTOR WIRE WOUND DOIB	R,FUSING 2.2OHM-J FRN1/4 KAMA	
		R28	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K 1/6W 5 TA26	
		R3	0RD4700F608	RESISTOR,FIXED CARBON FILM	470 1/6W 5 TA26	
		R30	0RD0472F608	RESISTOR,FIXED CARBON FILM	47 1/6W 5 TA26	
		R301	0RD1500F608	RESISTOR,FIXED CARBON FILM	150 1/6W 5 TA26	
		R302	0RD5601F608	RESISTOR,FIXED CARBON FILM	5.6K 1/6W 5 TA26	
		R303	0RD1203F608	RESISTOR,FIXED CARBON FILM	120K 1/6W 5 TA26	
		R304	0RD1202F608	RESISTOR,FIXED CARBON FILM	12K 1/6W 5 TA26	
		R305	0RD4702G608	RESISTOR,FIXED CARBON FILM	47K 1/4W 5 TA26	
		R306	0RD1502G608	RESISTOR,FIXED CARBON FILM	15K 1/4W 5 TA26	
		R311	0RD3300F608	RESISTOR,FIXED CARBON FILM	330 1/6W 5 TA26	
		R312	0RD2203F608	RESISTOR,FIXED CARBON FILM	220K 1/6W 5 TA26	
		R313	0RD6800F608	RESISTOR,FIXED CARBON FILM	680 1/6W 5 TA26	
		R314	0RD1501F608	RESISTOR,FIXED CARBON FILM	1.5K 1/6W 5 TA26	
		R315	0RD8200F608	RESISTOR,FIXED CARBON FILM	820 1/6W 5 TA26	
		R316	0RD1000F608	RESISTOR,FIXED CARBON FILM	100 1/6W 5 TA26	
		R317	0RD1001F608	RESISTOR,FIXED CARBON FILM	1.0K 1/6W 5 TA26	
		R318	0RD5600F608	RESISTOR,FIXED CARBON FILM	560 1/6W 5 TA26	
		R324	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K 1/6W 5 TA26	
		R33	0RD3301F608	RESISTOR,FIXED CARBON FILM	3.3K 1/6W 5 TA26	
		R331	0RD1202F608	RESISTOR,FIXED CARBON FILM	12K 1/6W 5 TA26	
		R332	0RD2701F608	RESISTOR,FIXED CARBON FILM	2.7K 1/6W 5 TA26	
		R333	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K 1/6W 5 TA26	
		R334	0RD1202F608	RESISTOR,FIXED CARBON FILM	12K 1/6W 5 TA26	
		R35	0RD4701G608	RESISTOR,FIXED CARBON FILM	4.7K 1/4W 5 TA26	
		R36	0RD4701G608	RESISTOR,FIXED CARBON FILM	4.7K 1/4W 5 TA26	
		R381	0RD2700F608	RESISTOR,FIXED CARBON FILM	270 1/6W 5 TA26	
		R382	0RD0221G608	RESISTOR,FIXED CARBON FILM	2.2 1/4W 5 TA26	
		R383	0RD1500G608	RESISTOR,FIXED CARBON FILM	150 1/4W 5 TA26	
		R5	0RD3300F608	RESISTOR,FIXED CARBON FILM	330 1/6W 5 TA26	
		R501	0RD2202F608	RESISTOR,FIXED CARBON FILM	22K 1/6W 5 TA26	
		R504	0RD1001F608	RESISTOR,FIXED CARBON FILM	1.0K 1/6W 5 TA26	
		R505	0RD2202F608	RESISTOR,FIXED CARBON FILM	22K 1/6W 5 TA26	
		R506	0RD1001F608	RESISTOR,FIXED CARBON FILM	1.0K 1/6W 5 TA26	
		R507	0RD1001F608	RESISTOR,FIXED CARBON FILM	1.0K 1/6W 5 TA26	
		R508	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K 1/6W 5 TA26	
		R509	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K 1/6W 5 TA26	
		R510	0RD1502F608	RESISTOR,FIXED CARBON FILM	15K 1/6W 5 TA26	

[REPLACEMENT PARTS LIST]

MODEL :- CD-340L

RUN-DATE : 92.06.11

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		R511	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K 1/6W 5 TA26	
		R512	0RD1502F608	RESISTOR,FIXED CARBON FILM	15K 1/6W 5 TA26	
		R513	0RD3301F608	RESISTOR,FIXED CARBON FILM	3.3K 1/6W 5 TA26	
		R514	0RD1503F608	RESISTOR,FIXED CARBON FILM	150K 1/6W 5 TA26	
		R515	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K 1/6W 5 TA26	
		R516	0RD1003F608	RESISTOR,FIXED CARBON FILM	100K 1/6W 5 TA26	
		R517	0RD4702F608	RESISTOR,FIXED CARBON FILM	47K 1/6W 5 TA26	
		R518	0RD5602F608	RESISTOR,FIXED CARBON FILM	56K 1/6W 5 TA26	
		R519	0RD1803F608	RESISTOR,FIXED CARBON FILM	180K 1/6W 5 TA26	
		R520	0RD1003F608	RESISTOR,FIXED CARBON FILM	100K 1/6W 5 TA26	
		R521	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K 1/6W 5 TA26	
		R523	0RD1003F608	RESISTOR,FIXED CARBON FILM	100K 1/6W 5 TA26	
		R524	0RD4703F608	RESISTOR,FIXED CARBON FILM	470K 1/6W 5 TA26	
		R526	0RD4702F608	RESISTOR,FIXED CARBON FILM	47K 1/6W 5 TA26	
		R527	0RD2201F608	RESISTOR,FIXED CARBON FILM	2.2K 1/6W 5 TA26	
		R528	0RD1201F608	RESISTOR,FIXED CARBON FILM	1.2K 1/6W 5 TA26	
		R529	0RD2203F608	RESISTOR,FIXED CARBON FILM	220K 1/6W 5 TA26	
		R530	0RD8201F608	RESISTOR,FIXED CARBON FILM	8.2K 1/6W 5 TA26	
		R531	0RD2201F608	RESISTOR,FIXED CARBON FILM	2.2K 1/6W 5 TA26	
		R532	0RD4702F608	RESISTOR,FIXED CARBON FILM	47K 1/6W 5 TA26	
		R533	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K 1/6W 5 TA26	
		R534	0RD4701F608	RESISTOR,FIXED CARBON FILM	4.7K 1/6W 5 TA26	
		R535	0RD1004F608	RESISTOR,FIXED CARBON FILM	1.0M 1/6W 5 TA26	
		R536	0RN3322F408	RESISTOR,FIX METAL FILM	33.2K 1/6W 1 TA26	
		R537	0RD1001F608	RESISTOR,FIXED CARBON FILM	1.0K 1/6W 5 TA26	
		R540	0RD1003F608	RESISTOR,FIXED CARBON FILM	100K 1/6W 5 TA26	
		R541	0RD4701F608	RESISTOR,FIXED CARBON FILM	4.7K 1/6W 5 TA26	
		R542	0RN3322F408	RESISTOR,FIX METAL FILM	33.2K 1/6W 1 TA26	
		R543	0RD1000F608	RESISTOR,FIXED CARBON FILM	100 1/6W 5 TA26	
		R545	0RD4702F608	RESISTOR,FIXED CARBON FILM	47K 1/6W 5 TA26	
		R547	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K 1/6W 5 TA26	
		R548	0RD1003F608	RESISTOR,FIXED CARBON FILM	100K 1/6W 5 TA26	
		R551	0RD0912F608	RESISTOR,FIXED CARBON FILM	91 1/6W 5 TA26	
		R552	0RD0222F608	RESISTOR,FIXED CARBON FILM	22 1/6W 5 TA26	
		R553	0RD5602F608	RESISTOR,FIXED CARBON FILM	56K 1/6W 5 TA26	
		R554	0RN3322F408	RESISTOR,FIX METAL FILM	33.2K 1/6W 1 TA26	
		R555	0RN3322F408	RESISTOR,FIX METAL FILM	33.2K 1/6W 1 TA26	
		R556	0RN2212F408	RESISTOR,FIX METAL FILM	22.1K 1/6W 1 TA26	
		R557	0RN3322F408	RESISTOR,FIX METAL FILM	33.2K 1/6W 1 TA26	
		R558	0RN2212F408	RESISTOR,FIX METAL FILM	22.1K 1/6W 1 TA26	
		R559	0RD1001F608	RESISTOR,FIXED CARBON FILM	1.0K 1/6W 5 TA26	
		R562	0RN3322F408	RESISTOR,FIX METAL FILM	33.2K 1/6W 1 TA26	
		R563	0RN3322F408	RESISTOR,FIX METAL FILM	33.2K 1/6W 1 TA26	
		R564	0RN2212F408	RESISTOR,FIX METAL FILM	22.1K 1/6W 1 TA26	
		R565	0RN2212F408	RESISTOR,FIX METAL FILM	22.1K 1/6W 1 TA26	
		R566	0RN3322F408	RESISTOR,FIX METAL FILM	33.2K 1/6W 1 TA26	
		R567	0RN3322F408	RESISTOR,FIX METAL FILM	33.2K 1/6W 1 TA26	
		R568	0RN3321F408	RESISTOR,FIX METAL FILM	3.32K 1/6W 1 TA26	
		R569	0RN2211F408	RESISTOR,FIX METAL FILM	2.21K 1/6W 1% TA26	
		R571	0RD8201F608	RESISTOR,FIXED CARBON FILM	8.2K 1/6W 5 TA26	

[REPLACEMENT PARTS LIST]

MODEL : CD-340L

RUN-DATE : 92.06.11

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		R572	0RD2202F608	RESISTOR,FIXED CARBON FILM	22K 1/6W 5 TA26	
		R573	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K 1/6W 5 TA26	
		R574	0RD4702F608	RESISTOR,FIXED CARBON FILM	47K 1/6W 5 TA26	
		R576	0RD4702F608	RESISTOR,FIXED CARBON FILM	47K 1/6W 5 TA26	
		R577	0RD1001F608	RESISTOR,FIXED CARBON FILM	1.0K 1/6W 5 TA26	
		R578	0RD1000F608	RESISTOR,FIXED CARBON FILM	100 1/6W 5 TA26	
		R58	0RD4701F608	RESISTOR,FIXED CARBON FILM	4.7K 1/6W 5 TA26	
		R580	0RD2203F608	RESISTOR,FIXED CARBON FILM	220K 1/6W 5 TA26	
		R583	0RD1003F608	RESISTOR,FIXED CARBON FILM	100K 1/6W 5 TA26	
		R584	0RD1003F608	RESISTOR,FIXED CARBON FILM	100K 1/6W 5 TA26	
		R585	0RD3302F608	RESISTOR,FIXED CARBON FILM	33K 1/6W 5 TA26	
		R586	0RD3302F608	RESISTOR,FIXED CARBON FILM	33K 1/6W 5 TA26	
		R587	0RD3302F608	RESISTOR,FIXED CARBON FILM	33K 1/6W 5 TA26	
		R588	0RD1003F608	RESISTOR,FIXED CARBON FILM	100K 1/6W 5 TA26	
		R59	0RD1001F608	RESISTOR,FIXED CARBON FILM	1.0K 1/6W 5 TA26	
		R593	0RD1001F608	RESISTOR,FIXED CARBON FILM	1.0K 1/6W 5 TA26	
		R594	0RD1004F608	RESISTOR,FIXED CARBON FILM	1.0M 1/6W 5 TA26	
		R6	0RD1000F608	RESISTOR,FIXED CARBON FILM	100 1/6W 5 TA26	
		R601	0RD4701F608	RESISTOR,FIXED CARBON FILM	4.7K 1/6W 5 TA26	
		R602	0RD4701F608	RESISTOR,FIXED CARBON FILM	4.7K 1/6W 5 TA26	
		R603	0RD4702F608	RESISTOR,FIXED CARBON FILM	47K 1/6W 5 TA26	
		R604	0RD4702F608	RESISTOR,FIXED CARBON FILM	47K 1/6W 5 TA26	
		R605	0RD4702F608	RESISTOR,FIXED CARBON FILM	47K 1/6W 5 TA26	
		R606	0RD4702F608	RESISTOR,FIXED CARBON FILM	47K 1/6W 5 TA26	
		R607	0RD2202F608	RESISTOR,FIXED CARBON FILM	22K 1/6W 5 TA26	
		R608	0RD2202F608	RESISTOR,FIXED CARBON FILM	22K 1/6W 5 TA26	
		R609	0RD2203F608	RESISTOR,FIXED CARBON FILM	220K 1/6W 5 TA26	
		R610	0RD2203F608	RESISTOR,FIXED CARBON FILM	220K 1/6W 5 TA26	
		R611	0RD6801F608	RESISTOR,FIXED CARBON FILM	6.8K 1/6W 5 TA26	
		R612	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K 1/6W 5 TA26	
		R615	0RD5600F608	RESISTOR,FIXED CARBON FILM	560 1/6W 5 TA26	
		R616	0RD5600F608	RESISTOR,FIXED CARBON FILM	560 1/6W 5 TA26	
		R619	0RD2200F608	RESISTOR,FIXED CARBON FILM	220 1/6W 5 TA26	
		R620	0RD2200F608	RESISTOR,FIXED CARBON FILM	220 1/6W 5 TA26	
		R625	0RD3302F608	RESISTOR,FIXED CARBON FILM	33K 1/6W 5 TA26	
		R626	0RD3302F608	RESISTOR,FIXED CARBON FILM	33K 1/6W 5 TA26	
		R629	0RD0152F608	RESISTOR,FIXED CARBON FILM	15 1/6W 5 TA26	
		R630	0RD4703F608	RESISTOR,FIXED CARBON FILM	470K 1/6W 5 TA26	
		R631	0RD2202F608	RESISTOR,FIXED CARBON FILM	22K 1/6W 5 TA26	
		R633	0RD0152F608	RESISTOR,FIXED CARBON FILM	15 1/6W 5 TA26	
		R7	0RD1001F608	RESISTOR,FIXED CARBON FILM	1.0K 1/6W 5 TA26	
		R702	0RD5600F608	RESISTOR,FIXED CARBON FILM	560 1/6W 5 TA26	
		R703	0RD2700F608	RESISTOR,FIXED CARBON FILM	270 1/6W 5 TA26	
		R8	0RD6801F608	RESISTOR,FIXED CARBON FILM	6.8K 1/6W 5 TA26	
		R9	0RD6801F608	RESISTOR,FIXED CARBON FILM	6.8K 1/6W 5 TA26	
		SW101	556-621B	SWITCH LEVER	S0D2737-01-901 6C-3P K-HOSIDEN	
		SW102	556-621C	SWITCH LEVER	S0D2706-01-021 8C-4P K-HOSIDEN	
		SW103	552-628B	SWITCH SLIDE	JSS 2324 2P3P JEIL	
		SW104	554-634J	SWITCH PUSH	JPS 2259S 2C2P SHORT S-LOCK	
		SW106-	554-634K	SWITCH PUSH	JPS 2259NS 2C2P SHORT N-LOCK	

[REPLACEMENT PARTS LIST]

MODEL : CD-340L

RUN-DATE : 92.06.11

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		SW501	558T026A	SWITCH SPECIAL	TACT EVQ-114 04M H=4.3 TP	
		SW502	558T026A	SWITCH SPECIAL	TACT EVQ-114 04M H=4.3 TP	
		SW503	558T026A	SWITCH SPECIAL	TACT EVQ-114 04M H=4.3 TP	
		SW504	558T026A	SWITCH SPECIAL	TACT EVQ-114 04M H=4.3 TP	
		SW505	558T026A	SWITCH SPECIAL	TACT EVQ-114 04M H=4.3 TP	
		SW506	558T026A	SWITCH SPECIAL	TACT EVQ-114 04M H=4.3 TP	
		SW507	558T026A	SWITCH SPECIAL	TACT EVQ-114 04M H=4.3 TP	
		SW510	552-635B	SWITCH SLIDE	SSCTL1227A SHORTING (A)TYPE	
		TC6	623-001G	TRIMMER	TRIMMER,C CVN630 DONG-KUK (S)	
		TC7	623-001G	TRIMMER	TRIMMER,C CVN630 DONG-KUK (S)	
		T1	644-039M	TRANS	COIL, IF MW 7 (S)	
		T101	634-023B	COIL OSCILLATOR	OSC TAPE 10,(=634-023A),JUPA	
		VC1	622-012M	VARICON POLY	R-6303,22KT-LONG LUG (S)	
		VR1	0RV1223D230	VARIABLE RESISTOR,CARBON FILM	22K 6 ST P3 L2.5 5	
		VR201	612-628H	RESISTOR SLIDE	EWA-SEN T50 B24 20KBX2	
		VR202	612-628B	RESISTOR SLIDE	EWA-SENT50A24,A20KX2 (626B)(S)	
		VR501	0RV1223D230	VARIABLE RESISTOR,CARBON FILM	22K 6 ST P3 L2.5 5	
		VR502	0RV1103D230	VARIABLE RESISTOR,CARBON FILM	10K 6 ST P3 L2.5 5	
		VR505	0RV1102D230	VARIABLE RESISTOR,CARBON FILM	1.0K 6 ST P3 L2.5 5	
		X501	616-020T	FILTER CERAMIC	CSA8.46MT MURATA	
		YN27X-	419-360H	DECK MECHANISM	YM27X-407 CFD-20	
		ZD202	0DZ680009AC	DIODE ZENER	UZ6.8BM,0.5W,UNIZON,TP	
				*** END OF DATA ***		